Appendix III

Drill Hole Log

Book 2 of 4

CL96-30 to CL96-49

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-30

PROJECT: Clone	Date Commenced: 07/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-30	Date Completed: 10/07/96		Geotech by: DBL
LENGTH: 362.71	Core Diam: BQTK		

Collar Location

Latitude:	2023.12
Departure:	1907.23
Elevation:	1399.64

S U M M A R Y

0.00-0.60	CASING
0.60-9.50	volcaniclastics
9.50-29.70	volcaniclastics
29.70-34.44	Broken Core
34.44-42.00	volcaniclastics
42.00-47.30	Hornblende Feldspar xtalline
47.30-71.35	volcaniclastics
71.35-78.90	ANDESITE DYKE
78.90-83.98	Hornblende Feldspar xtalline
83.98-86.42	ANDESITE DYKE
86.42-108.20	Hornblende Feldspar xtalline
108.20-108.75	gouge
108.75-122.75	volcaniclastics
122.75-122.90	Broken Core
122.90-174.30	volcaniclastics
174.30-175.30	Broken Core
175.30-186.00	volcaniclastics
186.00-199.00	volcaniclastics
199.00-202.00	Broken Core
202.00-213.00	volcaniclastics
213.00-221.50	Hornblende Feldspar xtalline
221.50-248.00	volcaniclastics
248.00-295.00	Hornblende Feldspar xtalline
295.00-327.00	volcaniclastics
327.00-350.00	volcaniclastics
350.00-361.30	volcaniclastics
361.30-362.71	volcaniclastics

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	90.00	-69.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	0.60	CASING										
0.60	9.50	volcaniclastics	46997	0.60-2.00	1.40	0.041	0.30	19.0	84.0	19.0	177.0	6.0
		Medium grained, green, mottled, porphyritic	46998	2.00-3.50	1.50	0.080	0.30	25.0	150.0	44.0	162.0	3.0
		Frs=8/m :Vns =13/m	46999	3.50-5.00	1.50	0.058	0.30	30.0	149.0	33.0	157.0	7.0
		Moderate CL pervasive	47000	5.00-6.50	1.50	0.033	0.40	19.0	166.0	14.0	192.0	3.0
		Trace EP patches	41001	6.50-8.00	1.50	0.033	0.30	23.0	159.0	27.0	134.0	3.0
		Trace PY disseminated	41002	8.00-9.50	1.50	0.095	0.30	27.0	123.0	31.0	103.0	4.0
		Weak CV patches										
		med to drk grey to green-grey GABR; to 30% mottled lt to dk green subhedral augite? phenos to 7mm; local patches of up to 25% lt grey anhedral phenos to 3mm; vfg matrix; ALT: mod perv, phenocryst replacement, and fracture fill chl; mod perv sericite; weak irregular calcite patches and veins; lower contact indistinct										
<0.60-4.30>		Broken Core										
		weak broken core; weak limonite fracture fill										
9.50	29.70	volcaniclastics	41003	9.50-11.00	1.50	0.055	0.30	24.0	132.0	36.0	81.0	3.0
		Fine grained, green, massive, mottled	41004	11.00-12.50	1.50	0.034	0.30	22.0	83.0	236.0	72.0	3.0
		Frs=7/m :Vns =15/m	41005	12.50-14.00	1.50	0.056	0.30	21.0	117.0	48.0	70.0	3.0
		Moderate CL pervasive	41006	14.00-15.50	1.50	0.046	0.30	25.0	145.0	37.0	81.0	3.0
		Moderate MS pervasive	41007	15.50-17.00	1.50	0.105	0.30	27.0	39.0	34.0	79.0	3.0
		Weak PY disseminated	41008	17.00-18.50	1.50	0.037	0.30	33.0	44.0	36.0	90.0	3.0
		Weak QC patches	41009	18.50-20.00	1.50	0.032	0.30	29.0	41.0	31.0	82.0	4.0
		med grey to green-grey HFXL?; rare sub-anhedral lt to dk grey hbl? phenos to 2mm; fg-vfgoften granular matrix; ALT: mot-str perv chl; mod-str perv ser; wk irregular calcite stockwork and patches +/- qz	41010	20.00-21.50	1.50	0.018	0.30	31.0	37.0	21.0	78.0	3.0
			41011	21.50-23.00	1.50	0.015	0.50	31.0	26.0	21.0	88.0	4.0
			41012	23.00-24.50	1.50	0.032	0.30	33.0	52.0	33.0	95.0	3.0
			41013	24.50-26.00	1.50	0.540	0.30	36.0	30.0	59.0	84.0	6.0
<13.80-16.40>		Chlorite Streaming sheeting 10° Strong CL SHEETED Moderate MS SHEETED										
		mod-str chl-ser sheating/foliation; irregular @ about 10 deg										
<17.35-18.50>		Broken Core fracturing 15°										
		wk angular broken core; fractures inconsistent @ 15 deg; mod limonite fracture fill and calcite leaching										
<23.00-24.60>		Strong CL pervasive										
		strong wispy perv and fracture fill brn-grn chl										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<26.80-27.20>		Broken Core mod angular broken core; irregular fracture orientation; wk limonite fracture fill										
<27.40-27.45>		PYRITE VEIN stringer 60° 6% stringer py with chl to 2mm; irregular orientation @ 60 deg										
29.70	34.44	Broken Core	41014	26.00-27.50	1.50	0.027	0.30	32.0	34.0	46.0	81.0	3.0
		Broken	41015	27.50-29.00	1.50	0.034	0.30	30.0	13.0	40.0	81.0	3.0
		fracturing 50°	41016	29.00-30.50	1.50	0.055	0.30	28.0	18.0	106.0	69.0	3.0
		Moderate QC macroveins	41017	30.50-32.00	1.50	0.040	0.40	27.0	33.0	81.0	87.0	3.0
		mod to rubbly broken core within HFXL; mod bleaching; trace local fg gouge; mod limonite fracture fill, local lost core; common calcite leaching; qz+/-calcite veins to 3cm near lower contact; fractures common @ 50 deg	41018	32.00-33.50	1.50	4.080	0.90	83.0	62.0	255.0	96.0	6.0
<31.00-32.00>		40cm lost core										
34.44	42.00	volcaniclastics	41019	33.50-34.50	1.00	0.520	0.60	71.0	28.0	432.0	98.0	7.0
		Fine grained, green, graded, massive	41020	34.50-36.00	1.50	0.105	0.30	34.0	71.0	64.0	75.0	3.0
		Frs=10/m :Vns =6/m	41021	36.00-37.50	1.50	0.036	0.30	33.0	71.0	31.0	85.0	3.0
		Moderate CL pervasive	41022	37.50-39.00	1.50	0.016	0.30	32.0	71.0	47.0	87.0	6.0
		Moderate MS pervasive	41023	39.00-40.50	1.50	0.018	0.30	34.0	20.0	55.0	91.0	9.0
		Weak PY patches	41024	40.50-42.00	1.50	0.025	0.30	34.0	14.0	35.0	100.0	3.0
		Weak CV stockwork med gry to grn-gry HFXL?; local anhedral lt gry phenos to 4mm; oikiocrysts? of plag/hbl, otherwise no visible phenocrysts; fg granular groundmass; ALT: mod perv chl-ser; wk patchy calcite stockwork; minor 2% patchy py										
42.00	47.30	Hornblende Feldspar xtalline	41025	42.00-43.50	1.50	0.110	0.30	37.0	12.0	2482.0	82.0	5.0
		Fine grained, green, crystalline	41026	43.50-45.00	1.50	0.105	0.30	37.0	18.0	1015.0	253.0	5.0
		Frs=12/m :Vns =18/m	41027	45.00-46.50	1.50	0.910	1.10	332.0	34.0	1494.0	289.0	12.0
		Moderate SI pervasive										
		Moderate CL pervasive										
		Moderate MS pervasive										
		Strong KS pervasive										
		Moderate PY patches										
		Weak CV stockwork										
		S-zone; med-lt grey to grn-gry HFXL with local sub-anhedral med green translucenthbl phenos to 15mm; fg-vfg matrix; ALT: mod perv silica, ser, chl; str perv K-spar; mod-wk calcite veins and stockwork; minor										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		irregular patches and veins of py +/- aspy to 6cm with less disseminated										
<42.20-42.30>		SULPHIDE VEIN macroveins 50° 3cm aspy-py-cc vein @ 50 deg; 10% aspy, 15%py										
<43.60-43.70>		foliated 30° chl foliation @ 30 deg with irregular aspy+/-py lobes branching off										
<43.70-44.60>		Strong SI pervasive strong prev silica										
<45.45-46.00>		SULPHIDE VEIN 12% py; 3% aspy as cg granular patches and veins to 6mm @ 30 deg										
47.30	71.35	volcaniclastics	41028	46.50-48.00	1.50	0.050	0.30	35.0	93.0	51.0	90.0	5.0
		Fine grained, green, mottled, massive	41029	48.00-49.50	1.50	0.031	0.30	37.0	122.0	37.0	112.0	3.0
		Frs=8/m :Vns =4/m	41030	49.50-51.00	1.50	0.024	0.30	19.0	61.0	21.0	70.0	7.0
		Trace SI pervasive	41031	51.00-52.50	1.50	0.016	0.30	18.0	51.0	22.0	72.0	5.0
		Weak CL pervasive	41032	52.50-54.00	1.50	0.027	0.30	39.0	67.0	43.0	106.0	3.0
		Strong MS pervasive	41033	54.00-55.50	1.50	0.028	0.30	27.0	25.0	26.0	97.0	3.0
		Moderate KS pervasive	41034	55.50-57.00	1.50	0.018	0.30	38.0	25.0	47.0	76.0	6.0
		Weak PY pervasive	41035	57.00-58.50	1.50	0.013	0.40	33.0	24.0	26.0	80.0	3.0
		Weak CV stockwork	41036	58.50-60.00	1.50	0.012	0.30	36.0	26.0	41.0	100.0	3.0
		med grn to brn-gry locally grn-gry HFXL?; no	41037	60.00-61.50	1.50	0.053	0.30	36.0	67.0	291.0	96.0	7.0
		observable hbl phenos; rare local sub-anhedral	41038	61.50-63.00	1.50	0.050	0.30	45.0	50.0	513.0	70.0	5.0
		rectangular phenos - bi? oilciocrysts; fg granular	41039	63.00-64.50	1.50	0.006	0.30	13.0	15.0	22.0	59.0	3.0
		matrix; ALT: wk perv black chl; str perv ser; mod perv	41040	64.50-66.00	1.50	0.025	0.30	39.0	78.0	34.0	89.0	3.0
		K-spar; trace perv silica	41041	66.00-67.50	1.50	0.012	0.30	32.0	56.0	37.0	88.0	3.0
<47.30-49.60>		4% mg patchy py										
<50.40-51.30>		Broken Core weak broken core with mod limonite fracture fill and wk bleaching										
<62.00-63.70>		Moderate SI pervasive mod-str perv silica										
<66.05-66.08>		Broken Core rubbly broken core with mod limonite fracture fill										
71.35	78.90	ANDESITE DYKE	41042	67.50-69.00	1.50	0.026	0.40	28.0	52.0	441.0	68.0	3.0
		Fine grained, grayish-green, massive	41043	69.00-70.50	1.50	0.025	0.30	33.0	28.0	52.0	100.0	3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		contact 30°	41044	70.50-71.35	0.85	0.010	0.40	29.0	20.0	27.0	88.0	5.0
		Frs=4/m :Vns =0/m	41045	71.35-73.00	1.65	0.009	0.30	10.0	47.0	3.0	117.0	15.0
		Weak GY disseminated	41046	73.00-74.50	1.50	0.006	0.30	9.0	56.0	2.0	127.0	13.0
		Strong MT disseminated	41047	74.50-76.00	1.50	0.012	0.30	10.0	57.0	2.0	124.0	12.0
		Trace PY phenocrystal replacement	41048	76.00-77.50	1.50	0.025	0.30	16.0	45.0	13.0	121.0	14.0
		med gry-grn massive late andesite? dyke; 3% blk	41049	77.50-78.45	0.95	0.008	0.30	16.0	47.0	8.0	121.0	11.0
		subhedral magnetite replaced phenos, often with py										
		cores to 1mm; 3% diss gypsum? phenos replacing ?; 40%										
		lt gry subhedral plag phenos; vfg groundmass; upper										
		contact @ 30 deg, lower contact irregular										
78.90	83.98	Hornblende Feldspar xtalline	41050	78.45-80.00	1.55	0.160	0.40	27.0	24.0	262.0	79.0	11.0
		Fine grained, pale green, crystalline, broken	41051	80.00-81.50	1.50	0.065	0.60	30.0	13.0	193.0	110.0	3.0
		Frs=22/m :Vns =25/m	41052	81.50-83.00	1.50	0.060	0.30	30.0	17.0	42.0	119.0	3.0
		Weak CL pervasive	41053	83.00-83.98	0.98	0.075	0.30	30.0	21.0	71.0	112.0	3.0
		Strong MS pervasive										
		Moderate KS pervasive										
		Trace PY disseminated										
		Strong CV stockwork										
		lt gry to grn-gry HFXL with 25% lt gry-grn subhedral										
		hbl phenos to 1.5mm; vfg to aph matrix; ALT: str perv										
		ser; wk to absent perv chl; str calcite stockwork										
		throughout; wk diss py+po										
<78.90-81.00>		Broken Core										
		strong angular broken core; mod bleaching and limonite										
		fracture fill; irregular fracture orientation										
83.98	86.42	ANDESITE DYKE	41054	83.98-85.50	1.52	0.016	0.30	18.0	49.0	7.0	128.0	12.0
		Fine grained, green, massive	41055	85.50-86.42	0.92	0.006	0.30	18.0	52.0	3.0	126.0	11.0
		contact 50°										
		Frs=9/m										
		Weak GY disseminated										
		Strong MT disseminated										
		Trace PY phenocrystal replacement										
		gry-grn fresh looking magnetic and dyke; D.A.P.										
		74.35-78.90m; upper and lower contacts @ 50 deg										
86.42	108.20	Hornblende Feldspar xtalline	41056	86.42-88.00	1.58	0.026	0.40	44.0	44.0	94.0	125.0	3.0
		Fine grained, green, mottled	41057	88.00-89.50	1.50	0.095	0.30	31.0	21.0	435.0	89.0	4.0
		stockwork 40°	41058	89.50-91.00	1.50	0.160	0.30	39.0	11.0	441.0	103.0	6.0
		Frs=8/m :Vns =40/m	41059	91.00-92.50	1.50	0.029	0.40	34.0	20.0	84.0	132.0	7.0
		Weak CL wispy	41060	92.50-94.00	1.50	0.032	0.80	32.0	25.0	66.0	128.0	22.0
		Strong MS pervasive	41061	94.00-95.50	1.50	0.041	0.40	40.0	26.0	115.0	135.0	10.0
		Moderate KS pervasive	41062	95.50-97.00	1.50	0.034	0.80	33.0	19.0	99.0	119.0	20.0
		Weak PY disseminated	41063	97.00-98.50	1.50	0.038	0.30	37.0	23.0	98.0	140.0	12.0
		Strong CV stockwork	41064	98.50-100.00	1.50	0.028	0.30	35.0	25.0	86.0	111.0	4.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		med to dk gry HFXL, locally grn-gry; 20% mgr to cgr	41065	100.00-101.50	1.50	0.017	0.30	39.0	29.0	72.0	80.0	7.0
		subhedral hbl needles to 15mm; fg to vfg matrix; ALT:	41066	101.50-103.00	1.50	0.020	0.30	28.0	34.0	44.0	75.0	3.0
		wk-mod wispy chl; str perv ser, locally foliated;	41067	103.00-104.50	1.50	0.025	0.30	32.0	32.0	47.0	144.0	3.0
		strong calcite stockwork, dominantly @ 30 deg	41068	104.50-106.00	1.50	0.036	0.30	38.0	106.0	105.0	223.0	13.0
	<86.90-87.12>	Broken Core										
		gouge 40°										
		strong broken core; 3mm gougy slip @ 40 deg, weak										
		fault zone										
	<87.90-88.10>	gougy rubbly broken core; 5% fg gouge										
	<104.85-105.50>	gouge										
		moderate subangular broken core with 3% brn rusty fg										
		gouge; mod limonite fracture fill; fractures irregular										
		@ low angles to core axis										
	<107.70-107.80>	foliated 70°	41069	106.00-107.50	1.50	0.029	0.30	25.0	252.0	50.0	102.0	6.0
		wispy py ?? with 20% fg-mg ??; oriented @ 70 deg										
	<107.90-108.00>	gabbro										
		Green, porphyritic										
		Strong CL pervasive										
		gabbro? dyklette or fragment with no dissernable										
		margins; subhedral blk chl altered augite phenos to										
		8mm; str perv chl alt										
108.20	108.75	gouge										
		fracturing 30°										
		3cm fg brn gouge within str angular broken core;										
		fractures commonly @ 30 deg; str limonite fracture										
		fill										
108.75	122.75	volcaniclastics	41070	107.50-109.00	1.50	0.620	0.40	181.0	248.0	2054.0	133.0	9.0
		Fine grained, dark green, mottled, auto brecciated	41071	109.00-110.50	1.50	1.280	0.40	275.0	517.0	3558.0	84.0	14.0
		Frs=4/m :Vns =10/m	41072	110.50-112.00	1.50	0.024	0.30	21.0	138.0	44.0	78.0	3.0
		Intense CL pervasive	41073	112.00-113.50	1.50	0.011	0.30	21.0	82.0	51.0	62.0	3.0
		Moderate MS pervasive	41074	113.50-115.00	1.50	0.019	0.30	25.0	109.0	45.0	52.0	3.0
		Trace EP microveins	41075	115.00-116.50	1.50	0.020	0.30	28.0	113.0	39.0	80.0	3.0
		Weak PY disseminated	41077	116.50-118.00	1.50	0.019	0.30	23.0	119.0	32.0	90.0	3.0
		Moderate CV stockwork	41078	118.00-119.50	1.50	0.023	0.30	29.0	197.0	236.0	83.0	5.0
		dk green strongly chlorite alt BHFL?; may possibly be	41079	119.50-121.00	1.50	0.070	0.30	69.0	164.0	373.0	120.0	8.0
		very altered gabbro; local lt gry subhedral	41080	121.00-122.50	1.50	0.015	0.30	20.0	108.0	28.0	255.0	13.0
		rectangular bi? phenos to 3mm; rare speckled dk and lt										
		grn augites? -associated with rounded quartz eyes? fg										
		granular groundmass; ALT: str-intense perv chl; mod										
		irregular calcite stockwork and patches; mod pervasive										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		ser										
<109.63-109.73>		QUARTZ-CALCITE VEINS										
		vein 60°										
		10cm qz-cc vein @ 60 deg										
<109.79-109.93>		SULPHIDE VEIN										
		vein 60°										
		30 % py, 15% aspy in vein with calcite @ 60 deg										
<114.75-114.85>		volcaniclastics										
		Fractured										
		fragment of lt grn GABR? with 20% subhedral blk to drk										
		gry augite? phenos										
122.75	122.90	Broken Core										
		Broken, gouge										
		fault zone with 3cm gouge and angular strongly broken										
		core; no consistent orientation of fractures										
122.90	174.30	volcaniclastics	41081	122.50-124.00	1.50	0.004	0.30	25.0	121.0	26.0	84.0	4.0
		Greenish-gray, auto brecciated, foliated	41082	124.00-125.50	1.50	0.021	1.00	23.0	142.0	40.0	835.0	575.0
		Frs=7/m :Vns =2/m	41083	125.50-127.00	1.50	0.009	0.70	27.0	167.0	43.0	488.0	104.0
		Weak CL wispy	41084	127.00-128.50	1.50	0.008	0.30	27.0	164.0	69.0	367.0	23.0
		Strong MS pervasive	41085	128.50-130.00	1.50	0.025	0.30	25.0	118.0	61.0	248.0	9.0
		Moderate KS pervasive	41086	130.00-131.50	1.50	0.015	0.30	30.0	148.0	50.0	168.0	8.0
		Weak PY disseminated	41087	131.50-133.00	1.50	0.009	0.50	26.0	127.0	50.0	199.0	21.0
		Weak CV microveins	41088	133.00-134.50	1.50	0.012	0.70	15.0	108.0	81.0	73.0	29.0
		lt grn-gry to lt gry strongly autobrecciated foliated	41089	134.50-136.00	1.50	0.013	0.30	16.0	78.0	46.0	63.0	13.0
		HFXL; up to 20% but generally cryptic lt grn	41090	136.00-137.50	1.50	0.007	0.30	19.0	61.0	45.0	62.0	5.0
		translucent ser alt'd hbl phenos; up to 30% subrounded	41091	137.50-139.00	1.50	0.005	0.30	20.0	41.0	90.0	41.0	6.0
		to subangular HFXL fragments; ALT: mod-wk perv chl;	41092	139.00-140.50	1.50	0.010	0.30	17.0	32.0	67.0	42.0	3.0
		str sheeted and perv ser; mod perv K-spar; wk calcite	41093	140.50-142.00	1.50	0.013	0.30	18.0	40.0	77.0	41.0	3.0
		veining to 1cm, 1 per metre; chl increacing towards	41094	142.00-143.50	1.50	0.010	0.30	16.0	60.0	79.0	38.0	3.0
		upper contact, ser increasing towards lower contact;	41095	143.50-145.00	1.50	0.002	0.30	19.0	68.0	61.0	38.0	3.0
		rare lt gry subhedral bi?	41096	145.00-146.50	1.50	0.010	0.30	24.0	112.0	105.0	33.0	11.0
<124.30-124.60>		gouge										
		gouge 40°:sheeting 40°										
		Intense MS SHEETED										
		sericite foliation @ 40 deg; 3mm gougy slip at 40 deg										
<128.38-128.58		small gougy slip @ 50 deg; 4mm gouge with mod angular										
		broken core										
<132.80-134.00		8% vfg to fg py disseminated and wispy										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<134.10-134.50> Broken Core mod angular broken core; trace mg gouge										
		<134.70-140.10> foliated 50° 4-5% vfg to fg py; str fol'd autobrecciation @ 50 deg; trace to 0.5% po										
		<137.50-143.10>unknown black specks to 1mm; often lath like; non-magnetic and soft; within both autobrecciated fragments and HFXL matrix										
		<140.10-147.08>5% vfg diss py and as irregular patches										
		<147.00-174.30> Hornblende Feldspar xtalline	41097	146.50-148.00	1.50	0.007	0.30	19.0	91.0	98.0	38.0	9.0
		Green, crystalline, foliated	41098	148.00-149.50	1.50	0.019	0.80	16.0	161.0	1034.0	105.0	24.0
		Trace CL wispy	41099	149.50-151.00	1.50	0.010	0.70	19.0	139.0	292.0	397.0	29.0
		Strong MS pervasive	41100	151.00-152.50	1.50	0.016	0.80	25.0	94.0	70.0	209.0	21.0
		med gry strongly sericitic HFXL; less autobrecciation	41101	152.50-154.00	1.50	0.009	0.50	17.0	98.0	52.0	80.0	18.0
		than above, ceacing at 158.5m; 2-3% fg diss py	41102	154.00-155.50	1.50	0.018	0.80	41.0	79.0	106.0	135.0	18.0
		<155.00-164.00> calcite vein	41103	155.50-157.00	1.50	0.016	0.50	22.0	101.0	56.0	52.0	10.0
		bladed calcite veins to 1cm; inconsistent orientation;	41104	157.00-158.50	1.50	0.014	0.60	29.0	160.0	139.0	104.0	19.0
		about 1 per metre	41105	158.50-160.00	1.50	0.019	0.40	14.0	51.0	68.0	46.0	13.0
		<162.30-164.40> sheeting 0°	41106	160.00-161.50	1.50	0.028	0.30	10.0	63.0	266.0	35.0	7.0
		Strong MS SHEETED	41107	161.50-163.00	1.50	0.028	0.30	24.0	124.0	115.0	68.0	21.0
		sericitic fol'n @ 0 deg										
		<164.50-166.12> Broken Core	41108	163.00-164.50	1.50	0.019	0.30	20.0	97.0	68.0	91.0	14.0
		gouge 45°	41109	164.50-166.00	1.50	0.036	0.30	27.0	140.0	55.0	145.0	3.0
		pyritic gougy slips @ 45 deg within weak angular broken core; about 3 per metre										
		<171.20-174.30> fracturing 25°	41110	166.00-167.50	1.50	0.047	0.30	34.0	182.0	24.0	117.0	3.0
		weak broken core with weak irregular gougy slips;	41111	167.50-169.00	1.50	0.023	0.30	24.0	136.0	17.0	143.0	3.0
		fractures commonly @ 25 deg	41112	169.00-170.50	1.50	0.031	0.30	21.0	89.0	29.0	140.0	3.0
		<174.30-175.30> gouge 15°	41113	170.50-172.00	1.50	0.075	0.30	34.0	152.0	63.0	107.0	3.0
		mod to angular rubbly broken core within HFXL; gougy	41114	172.00-173.50	1.50	0.059	0.30	39.0	114.0	97.0	91.0	8.0
		slips to 4mm @15 deg; 2% fg to vfg gouge; weak to mod	41115	173.50-175.00	1.50	0.065	0.60	35.0	135.0	190.0	110.0	4.0
		fault zone										
175.30	186.00	volcaniclastics	41116	175.00-176.50	1.50	0.025	0.30	20.0	89.0	50.0	99.0	3.0
		Fine grained, greenish-gray, mottled, crystalline	41117	176.50-178.00	1.50	0.014	0.30	23.0	111.0	26.0	105.0	3.0
		Frs=6/m :Vns =12/m	41118	178.00-179.50	1.50	0.033	0.30	26.0	145.0	16.0	88.0	3.0
		Moderate CL wispy	41119	179.50-181.00	1.50	0.085	0.30	25.0	97.0	24.0	87.0	3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong MS pervasive	41120	181.00-182.50	1.50	0.145	0.30	20.0	88.0	17.0	95.0	5.0
		Trace EP patches	41121	182.50-184.00	1.50	0.014	0.30	21.0	104.0	22.0	172.0	3.0
		Weak PY disseminated	41122	184.00-185.50	1.50	0.012	0.30	26.0	110.0	24.0	146.0	3.0
		Weak CV stockwork										
		strongly mottled HFXL; local salt and pepper texture										
		with rare lt grn and less lt gry to cream translucent										
		hbl phenos to 1mm;fg granular matrix; ALT: mod wispy										
		chl; str perv ser; wk to mod stockwork calcite										
	<182.70-183.85>	gabbro										
		Medium grained, green, porphyritic, mottled										
		Strong CL pervasive										
		Trace EP phenocrystal replacement										
		very alt'd gabbro with no dissernable contacts; about										
		4% blk subhedral augite phenos, often peppered with lt										
		grn epidote to 7mm; str perv chl alt										
186.00	199.00	volcaniclastics	41123	185.50-187.00	1.50	0.050	0.30	21.0	114.0	106.0	76.0	5.0
		Fine grained, grayish-green, crystalline, mottled	41124	187.00-188.50	1.50	0.031	0.30	25.0	111.0	94.0	86.0	3.0
		Frs=7/m :Vns =11/m	41125	188.50-190.00	1.50	0.041	0.30	25.0	168.0	94.0	63.0	4.0
		Moderate CL wispy	41126	190.00-191.50	1.50	0.034	0.30	16.0	129.0	131.0	59.0	11.0
		Strong MS pervasive	41127	191.50-193.00	1.50	0.085	0.30	27.0	144.0	335.0	73.0	6.0
		Trace KS patches	41128	193.00-194.50	1.50	0.025	0.30	33.0	101.0	148.0	62.0	3.0
		Weak PY disseminated	41129	194.50-196.00	1.50	0.017	0.30	22.0	92.0	84.0	67.0	3.0
		BHFL with 0-15% lt gry bi? phenos (augite?); to 35% lt	41130	196.00-197.50	1.50	0.015	0.30	27.0	91.0	70.0	70.0	3.0
		grn translucent sub-anhedral hbl phenos to 1mm,	41131	197.50-199.00	1.50	0.037	0.30	25.0	165.0	54.0	81.0	3.0
		commonly cryptic; possible rare dk grn augites; fg										
		granular matrix; ALT: str perv ser; mod wispy blk to										
		dk grn to olive grn chl; mod calcite as veins to 1cm,										
		stockwork and irregular patches										
199.00	202.00	Broken Core	41132	199.00-200.50	1.50	0.011	0.30	23.0	103.0	47.0	83.0	3.0
		Greenish-gray, broken	41133	200.50-202.00	1.50	0.019	0.30	26.0	131.0	44.0	95.0	3.0
		gouge 10°										
		gougy fault zone within med-dk grn-gry BHFL; 2% gouge;										
		mod-strongly broken angular core; fractures and gouge										
		commonly @ 10 deg										
202.00	213.00	volcaniclastics	41134	202.00-203.50	1.50	0.022	0.30	27.0	125.0	84.0	83.0	3.0
		Fine grained, dark green, mottled, foliated	41135	203.50-205.00	1.50	0.060	0.30	60.0	107.0	167.0	76.0	3.0
		foliated 55°:microveins 40°	41136	205.00-206.50	1.50	0.105	0.30	26.0	145.0	111.0	75.0	7.0
		Frs=10/m :Vns =20/m	41137	206.50-208.00	1.50	0.026	0.30	28.0	97.0	24.0	149.0	3.0
		Strong CL pervasive	41138	208.00-209.50	1.50	0.010	0.30	30.0	96.0	14.0	203.0	3.0
		Moderate MS pervasive	41139	209.50-211.00	1.50	0.013	0.30	33.0	136.0	18.0	175.0	5.0
		Moderate KS pervasive	41140	211.00-212.00	1.00	0.016	0.40	20.0	110.0	11.0	76.0	12.0
		Weak PY disseminated	41141	212.00-213.00	1.00	0.036	0.40	22.0	187.0	18.0	187.0	9.0
		med grn-gry to grn BHFL with patchy subhedral										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		rectangular lt gry bi phenos to 3mm, generally cryptic; locally 15% sub-anhedral dk grn hbl phenos to 1.5mm; fg mottled matrix; weak local autobrecciation; mod inconsistent foliation often @ 55 deg; calcite as mod irregular patches and veins to 1.5cm often @ 40 deg; mod to intense perv and sheeted chl, increacing towards lower contact; str-mod perv ser, decreacing towards lower contact										
213.00	221.50	Hornblende Feldspar xtalline	41142	213.00-214.00	1.00	0.105	1.40	17.0	683.0	20.0	202.0	9.0
		Fine grained, dark green, mottled	41143	214.00-215.00	1.00	0.860	6.20	50.0	2603.0	214.0	263.0	22.0
		foliated 55°:microveins 35°	41144	215.00-216.00	1.00	0.070	0.40	34.0	247.0	39.0	143.0	8.0
		Frs=8/m	41145	216.00-217.00	1.00	0.090	0.30	8.0	134.0	15.0	210.0	3.0
		Intense CL pervasive	41146	217.00-218.00	1.00	3.120	4.40	109.0	1839.0	1381.0	1953.0	169.0
		Moderate CB patches	41147	218.00-219.00	1.00	0.120	0.50	45.0	243.0	1305.0	143.0	16.0
		Weak MS SHEETED	41148	219.00-220.00	1.00	0.090	0.50	39.0	191.0	769.0	152.0	15.0
		Moderate MT patches	41149	220.00-221.00	1.00	0.030	0.60	16.0	128.0	8.0	154.0	15.0
		Weak KS pervasive										
		Weak HE patches										
		Strong PY patches										
		Strong QC microveins										
		mineralized (H? S?) zone; dk grn locally med grn to blk; mottled, locally foliated and autobrecciated; 20% commonly cryptic stubby sub-anhedral hbl phenos to 1.5mm; vfg to aphanitic matrix; ALT: intense blk to dk grn perv sheeted chl; wk perv and sheeted ser										
		<213.78-214.18> semi-massive sulphides 20% cg-mg py; 5-10% mgt; 2% hem; trace aspy within irregular carbonate patch										
		<215.36-215.60> calcite vein microveins 10° irregular py-calcite vein; inconsistently 10 deg, 3cm wide; 10% py, trace aspy										
		<217.18-218.00> semi-massive sulphides microveins 35° 25% cg py; 4% mgt; 4%aspy; 2% hem; 0.3% cpy; all as cg granular patches and veins to 12 cm usually @ 35 deg										
		<218.80-219.25> 30% mg patchy py; 15% mg-fg granular patchy aspy; in irregular foliations										
		<219.25-221.20> Chlorite Streaming macroveins 10° Strong CL SHEETED										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate QC macroveins										
		strong sheeted chl; mod qz-calcite veins to 1cm, 1 per metre, generally @ 10 deg										
<221.40-221.50>		PYRITE VEIN vein 25° 10% py as fg-mg xtals in veins @ 25 deg										
221.50	248.00	volcaniclastics	41150	221.00-222.00	1.00	0.520	2.20	31.0	371.0	89.0	390.0	48.0
		Fine grained, dark green, mottled, foliated	41151	222.00-223.00	1.00	0.054	1.80	33.0	116.0	28.0	156.0	9.0
		microveins 35°:microveins 10°	41152	223.00-224.00	1.00	0.021	0.60	37.0	121.0	30.0	221.0	8.0
		Frs=10/m :Vns =20/m	41153	224.00-225.00	1.00	0.012	0.30	29.0	117.0	31.0	139.0	4.0
		Strong CL pervasive	41154	225.00-226.00	1.00	0.025	0.30	36.0	122.0	31.0	193.0	5.0
		Weak MS SHEETED	41155	226.00-227.00	1.00	0.070	0.30	24.0	105.0	38.0	122.0	6.0
		Moderate KS patches	41156	227.00-228.00	1.00	0.016	0.30	25.0	104.0	39.0	137.0	3.0
		Weak PY disseminated	41157	228.00-229.00	1.00	0.034	0.30	18.0	98.0	74.0	98.0	3.0
		Strong QC microveins	41158	229.00-230.00	1.00	0.050	0.80	20.0	137.0	37.0	79.0	26.0
		dk grn commonly fol'd and mottled HFXL with uncommon	41159	230.00-231.00	1.00	0.043	0.40	15.0	65.0	92.0	78.0	20.0
		dk grn sug-anhedral hbl phenos to 1mm; fg matrix; ALT:	41160	231.00-232.00	1.00	0.045	0.60	17.0	85.0	70.0	108.0	33.0
		str sheeted chl with wk ser; str calcite+/-qz veining	41161	232.00-233.00	1.00	0.036	0.60	14.0	106.0	87.0	101.0	30.0
		commonly 9mm wide, 20 per metre; inconsistent	41162	233.00-234.00	1.00	0.025	1.00	32.0	175.0	29.0	198.0	3.0
		orientations @ 10 to 35 deg	41164	234.00-235.00	1.00	0.012	0.30	33.0	76.0	23.0	267.0	3.0
<230.10-230.40>		Moderate MS wispy Strong KS patches irregular shaped strong K-spar and tan ser with sharp boundaries										
<239.30-240.70>		semi-massive sulphides	41165	235.00-236.00	1.00	0.006	0.30	30.0	56.0	24.0	293.0	3.0
		macroveins 40°	41166	236.00-237.00	1.00	0.005	0.30	32.0	53.0	33.0	266.0	20.0
		Intense CL pervasive	41167	237.00-238.00	1.00	0.014	0.30	31.0	98.0	64.0	218.0	3.0
		Strong MT pervasive	41168	238.00-239.00	1.00	0.028	0.30	24.0	68.0	61.0	188.0	3.0
		Moderate PY patches	41169	239.00-240.00	1.00	0.145	1.60	45.0	911.0	449.0	1028.0	69.0
		17% fg-cg py as irregular patches and veins to 2cm @ 40 deg; intense blk perv chl; str perv mgt										
248.00	295.00	Hornblende Feldspar xtalline	41170	240.00-241.00	1.00	0.032	0.30	24.0	113.0	48.0	151.0	5.0
		Fine grained, dark green, crystalline, massive	41171	241.00-242.00	1.00	0.021	0.30	20.0	125.0	20.0	118.0	3.0
		foliated 45°	41172	242.00-243.00	1.00	0.039	0.30	19.0	221.0	14.0	142.0	3.0
		Frs=4/m :Vns =10/m	41173	243.00-244.00	1.00	0.025	0.30	27.0	244.0	17.0	85.0	3.0
		Strong CL pervasive	41174	244.00-245.50	1.50	0.017	0.30	23.0	181.0	23.0	109.0	6.0
		Strong MT pervasive	41175	245.50-247.00	1.50	0.010	0.30	22.0	119.0	24.0	140.0	3.0
		Weak KS pervasive	41176	247.00-248.50	1.50	0.010	0.30	23.0	116.0	22.0	326.0	122.0
		Trace HE wispy	41177	248.50-250.00	1.50	0.012	0.30	25.0	83.0	15.0	213.0	3.0
		Weak PY disseminated	41178	250.00-251.50	1.50	0.021	0.30	31.0	92.0	28.0	236.0	12.0
		Weak CV stockwork	41179	251.50-253.00	1.50	0.016	0.30	30.0	100.0	22.0	216.0	3.0
		massive dk grn locally mottled HFXL with 20% commonly	41180	253.00-254.50	1.50	0.018	0.30	24.0	98.0	13.0	182.0	3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		cryptic subhedral hbl phenos to 1mm; common crackled	41181	254.50-256.00	1.50	0.016	0.30	27.0	98.0	12.0	186.0	3.0
		appearance due to wk fracture-fill and stockwork	41182	256.00-257.50	1.50	0.031	0.30	29.0	105.0	15.0	161.0	3.0
		calcite; ALT: mod-str perv mgt; str perv chl; mod perv	41183	257.50-259.00	1.50	0.014	0.30	26.0	208.0	25.0	184.0	5.0
		ser, increacing towards lower contact; trace hem	41184	259.00-260.50	1.50	0.019	0.30	30.0	120.0	21.0	284.0	6.0
		within calcite stockwork; weak foliation @ 40-50 deg;	41185	260.50-262.00	1.50	0.029	0.30	29.0	67.0	12.0	344.0	8.0
		fg-mg diss py; may be phase transformation of H-zone										
		from hematite to vfg mgt										
<262.50-295.00>		Fine grained, greenish-gray, foliated	41186	262.00-263.50	1.50	0.006	0.30	33.0	58.0	17.0	376.0	7.0
		foliated 50°	41187	263.50-265.00	1.50	0.025	0.30	37.0	90.0	32.0	531.0	32.0
		Frs=5/m :Vns =7/m	41188	265.00-266.50	1.50	0.016	0.30	35.0	76.0	58.0	521.0	26.0
		Weak CL pervasive	41189	266.50-268.00	1.50	0.015	0.30	36.0	81.0	52.0	394.0	27.0
		Trace CB pervasive	41190	268.00-269.50	1.50	0.025	0.30	41.0	78.0	42.0	307.0	27.0
		Strong MS pervasive	41192	269.50-270.00	0.50	0.019	0.30	28.0	95.0	54.0	266.0	13.0
		Moderate KS pervasive	41193	270.00-271.50	1.50	0.020	1.50	32.0	1066.0	52.0	412.0	57.0
		Trace PY disseminated	41194	271.50-273.00	1.50	0.009	0.30	38.0	158.0	52.0	711.0	80.0
		Weak CV microveins	41195	273.00-274.50	1.50	0.024	0.50	39.0	250.0	67.0	368.0	30.0
		Weak QC microveins	41196	274.50-276.00	1.50	0.019	0.40	50.0	237.0	54.0	921.0	72.0
		mod-strongly foliated med grn-gry HFXL with 25%	41197	276.00-277.50	1.50	0.013	0.90	38.0	332.0	41.0	601.0	58.0
		sub-anhedral lt grn hbl phenos to 1mm, rare lt gry	41198	277.50-279.00	1.50	0.017	0.30	33.0	130.0	19.0	346.0	3.0
		subhedral bi phenos to 2.5mm; fg to vfg matrix; ALT:	41199	279.00-280.50	1.50	0.018	0.30	32.0	127.0	15.0	186.0	3.0
		str perv ser, mod to weak perv and sheeted dk gry chl;	41200	280.50-282.00	1.50	0.010	0.30	32.0	148.0	41.0	179.0	6.0
		weak irregular calcite stockwork; foliation 30-80 deg	41201	282.00-283.50	1.50	0.012	0.30	41.0	151.0	54.0	248.0	29.0
		but generally around 50 deg	41202	283.50-285.00	1.50	0.038	0.30	31.0	109.0	71.0	247.0	23.0
<271.20-271.30>		PYRITE VEIN										
		microveins 80°										
		3-8mm mg py vns @ 80 deg										
295.00	327.00	volcaniclastics	41203	285.00-286.50	1.50	0.045	0.30	27.0	107.0	48.0	121.0	15.0
		Fine grained, gray, mottled, foliated	41204	286.50-288.00	1.50	0.010	0.30	30.0	109.0	39.0	173.0	12.0
		foliated 40°	41205	288.00-289.50	1.50	0.018	0.70	31.0	129.0	58.0	195.0	32.0
		Frs=5/m :Vns =5/m	41206	289.50-291.00	1.50	0.023	0.30	24.0	97.0	78.0	112.0	20.0
		Trace SI patches	41207	291.00-292.50	1.50	0.018	0.30	17.0	75.0	36.0	67.0	12.0
		Weak CL wispy	41208	292.50-294.00	1.50	0.014	0.30	18.0	62.0	59.0	58.0	5.0
		Strong MS pervasive	41209	294.00-295.50	1.50	0.027	0.30	19.0	94.0	84.0	49.0	4.0
		Moderate KS pervasive	41210	295.50-297.00	1.50	0.021	0.30	18.0	68.0	133.0	35.0	6.0
		Weak PY patches	41211	297.00-298.50	1.50	0.012	0.30	13.0	63.0	57.0	44.0	6.0
		Moderate QC microveins	41212	298.50-300.00	1.50	0.014	0.30	11.0	45.0	80.0	36.0	12.0
		med-dk gry to grn-gry; mod to strongly autobrecciated	41213	300.00-301.50	1.50	0.005	0.30	13.0	51.0	217.0	29.0	5.0
		and foliated BHFL with 2-8% subhedral elongate bi?	41214	301.50-303.00	1.50	0.010	0.30	15.0	75.0	54.0	47.0	8.0
		aug? phenos to 2.5mm, often cryptic or absent; 25%	41215	303.00-304.50	1.50	0.027	0.30	16.0	72.0	47.0	71.0	9.0
		often cryptic subhedral dk-lt grn hbl phenos to 2mm,	41216	304.50-306.00	1.50	0.012	0.30	18.0	68.0	31.0	41.0	6.0
		commonly aligned; fg granular to vfg matrix; ALT: str	41217	306.00-307.50	1.50	0.013	0.30	19.0	93.0	249.0	74.0	8.0
		perv ser; weak wispy chl; mod perv K-spar; wk patchy	41218	307.50-309.00	1.50	0.063	0.70	36.0	55.0	141.0	72.0	31.0
		silica; wk-mod qtz/calcite veins; small amounts of	41219	309.00-310.50	1.50	0.018	0.30	22.0	68.0	168.0	84.0	12.0
		patchy to disseminated py throughout; foliation 30-60	41220	310.50-312.00	1.50	0.018	0.30	16.0	40.0	53.0	60.0	3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		deg, most commonly 40-deg	41221	312.00-313.50	1.50							
<297.00-303.80>		foliated 40°										
		strong fol'n at 40 deg										
<307.00-313.40>		volcaniclastics										
		Auto brecciated										
		Strong MS pervasive										
		strongly autobrecciated BHFL with 45% matrix supported										
		subrounded elongate fragments within HFXL? BHFL?										
		matrix; no observable bi in matrix; strongly sericitic										
<314.75-319.00>		foliated 45°	41222	313.50-315.00	1.50	0.010	0.30	20.0	58.0	101.0	44.0	3.0
		strongly foliated BHFL from 40-50 deg	41223	315.00-316.50	1.50	0.009	0.80	19.0	67.0	105.0	51.0	8.0
<322.00-326.00>		Weak SI patches	41224	316.50-318.00	1.50	0.008	1.00	18.0	66.0	108.0	39.0	11.0
		2% mg patchy py, generally associated with patchy	41225	318.00-319.50	1.50	0.005	0.60	17.0	72.0	166.0	43.0	13.0
		silica	41226	319.50-321.00	1.50	0.010	0.60	19.0	124.0	142.0	48.0	17.0
327.00	350.00	volcaniclastics	41227	321.00-322.50	1.50	0.008	0.50	22.0	138.0	63.0	38.0	6.0
		Fine grained, green, massive, spherulitic	41228	322.50-324.00	1.50	0.010	0.50	16.0	88.0	57.0	45.0	3.0
		microveins 80°	41229	324.00-325.50	1.50	0.015	0.50	20.0	102.0	120.0	61.0	3.0
		Frs=5/m :Vns =5/m	41230	325.50-327.00	1.50	0.009	0.60	16.0	91.0	60.0	55.0	3.0
		Weak SI patches	41231	327.00-328.50	1.50	0.007	0.40	19.0	66.0	85.0	49.0	3.0
		Weak CL wispy	41232	328.50-330.00	1.50	0.018	0.40	16.0	69.0	61.0	51.0	3.0
		Strong MS pervasive	41233	330.00-331.50	1.50	0.013	0.40	37.0	79.0	103.0	76.0	6.0
		Moderate KS pervasive	41234	331.50-333.00	1.50	0.027	0.40	16.0	61.0	137.0	47.0	3.0
		Moderate QC microveins	41235	333.00-334.50	1.50	0.016	0.30	11.0	28.0	60.0	55.0	3.0
		fg massive HFXL? no observable bi phenos; rare lt grn	41236	334.50-336.00	1.50	0.005	0.40	14.0	66.0	59.0	61.0	3.0
		to cream sub-anhedral hbl phenos to 1mm; vfg matrix;	41237	336.00-337.50	1.50	0.007	0.30	15.0	77.0	33.0	57.0	3.0
		med gry anhedral blk chl? speckles up to 10%; ALT: str										
		perv ser; wk wispy chl; wk-mod qz-cal veins to 1cm										
		with less stockworking, 1 vein per metre, generally @										
		80 deg; wk patchy sil; local mod autobrecciation										
<337.50-350.00>		Fine grained, gray, crystalline, auto brecciated	41238	337.50-339.00	1.50	0.017	0.30	12.0	77.0	36.0	43.0	3.0
		Weak CL wispy	41239	339.00-340.50	1.50	0.007	0.30	8.0	22.0	41.0	65.0	3.0
		Strong MS pervasive	41240	340.50-342.00	1.50	0.005	0.30	8.0	16.0	23.0	45.0	3.0
		Weak PY disseminated	41241	342.00-343.50	1.50	0.012	0.30	6.0	11.0	16.0	35.0	3.0
		Moderate QC microveins	41242	343.50-345.00	1.50	0.042	0.30	15.0	64.0	45.0	46.0	3.0
		med grn-gry mottled commonly autobrecciated and fol'd	41243	345.00-346.50	1.50	0.040	0.30	18.0	108.0	62.0	55.0	4.0
		BHFL; 15% subhedral biot phenos to 2mm; 20% cream to	41244	346.50-348.00	1.50	0.140	0.30	22.0	108.0	110.0	43.0	5.0
		lt green translucent sub-anhedral hbl phenos to 1.5mm;	41245	348.00-349.50	1.50	0.077	0.30	17.0	74.0	152.0	31.0	6.0
		fg granular to vfg mx; ALT: wk wispy chl; str perv										
		ser; wk qz/calcite veins to 1cm, 1 per metre commonly										
		@ 50 deg, with less stockworking; local blk euhedral										
		chl? speckles										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<340.30-341.90> Broken Core weak broken core; angular to subangular fractures; inconsistent orientations										
		<344.70-348.00> foliated 40° 10% diss and wispy cg to mg py, foliated @ 40 deg										
350.00	361.30	volcaniclastics	41246	349.50-351.00	1.50	0.011	0.30	20.0	124.0	81.0	49.0	6.0
		Fine grained, greenish-gray, foliated, auto brecciated	41247	351.00-352.50	1.50	0.009	0.30	19.0	84.0	70.0	45.0	3.0
		Frs=10/m :Vns =16/m	41248	352.50-354.00	1.50	0.016	0.30	23.0	126.0	91.0	36.0	3.0
		Weak CL wispy	41249	354.00-355.50	1.50	0.005	0.30	19.0	109.0	40.0	47.0	3.0
		Weak CB patches	41250	355.50-357.00	1.50	0.010	0.30	17.0	109.0	67.0	50.0	3.0
		Strong MS pervasive	41251	357.00-358.50	1.50	0.041	0.40	20.0	106.0	111.0	54.0	6.0
		Moderate KS pervasive	41252	358.50-360.00	1.50	4.980	0.60	51.0	63.0	188.0	58.0	6.0
		Weak PY disseminated										
		med gry to med grn-gry HFXL? no observable bi phenos;										
		25% cream to lt grn subhedral hbl phenos to 1.5mm; vfg										
		matrix; commonly foliated and autobrecciated; ALT:										
		weak wispy chl; str perv ser; weak patchy calcite;										
		gradational lower contact										
		<353.30-354.70> Broken Core strong to rubbly angular broken core; trace gouge										
361.30	362.71	volcaniclastics	41253	360.00-361.50	1.50	2.920	0.30	48.0	63.0	179.0	39.0	5.0
		Foliated, crystalline	41254	361.50-362.71	1.21	0.055	0.30	15.0	66.0	78.0	61.0	8.0
		foliated 50°										
		Frs=10/m :Vns =8/m										
		D.A.P. 337.50-350.00 biot phenos to 4mm; pyritic										
		sericitic foliation @ 50 deg; 8% vfg to fg py										
(eoh)												

11/29/96

Hole: CL96-30 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 — CL96-31

PROJECT: Clone	Date Commenced: 11/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-31	Date Completed: 11/07/96		Geotech by: DBL
LENGTH: 44.20	Core Diam: BQTK		

Collar Location

Latitude:	2262.25
Departure:	1967.49
Elevation:	1446.60

S U M M A R Y

0.00-0.52	CASING
0.52-26.75	Biotite Hbl Fdsp xtalline **
26.75-44.20	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	0.52	CASING Casing.										
0.52	26.75	Biotite Hbl Fdsp xtalline	41255	0.52-2.00	1.48	0.735	0.30	25.0	66.0	52.0	58.0	3.0
		Greenish-gray, crystalline	41256	2.00-3.00	1.00	0.015	0.30	17.0	90.0	41.0	83.0	17.0
		microveins 40°:contact 75°	41257	3.00-4.00	1.00	0.029	0.30	14.0	84.0	11.0	130.0	5.0
		Frs=10/m	41258	4.00-5.00	1.00	0.018	0.30	8.0	28.0	4.0	118.0	6.0
		Moderate SI patches	41259	5.00-6.00	1.00	0.022	0.30	15.0	3.0	2.0	117.0	7.0
		Moderate CL pervasive	41260	6.00-7.00	1.00	0.032	0.30	15.0	4.0	2.0	96.0	3.0
		Moderate MS pervasive	41261	7.00-8.00	1.00	0.033	0.30	29.0	19.0	21.0	75.0	3.0
		Strong KS pervasive	41262	8.00-9.00	1.00	0.160	0.30	17.0	100.0	20.0	79.0	14.0
		Trace HE wispy	41263	9.00-10.00	1.00	1.680	0.50	14.0	25.0	41.0	102.0	3.0
		Trace PY wispy	41264	10.00-11.00	1.00	0.024	0.30	13.0	41.0	23.0	92.0	7.0
		Weak QC microveins	41265	11.00-12.00	1.00	0.013	0.30	12.0	40.0	20.0	99.0	7.0
		Medium green to gray-green BHFl with 3 to 10% euhedral	41266	12.00-13.00	1.00	0.006	0.30	14.0	34.0	33.0	85.0	10.0
		Biotite (very augite looking), pink to cream to pale	41267	13.00-14.00	1.00	0.004	0.30	49.0	19.0	63.0	92.0	29.0
		brown, 10 to 25% light green translucent to pink	41268	14.00-15.00	1.00	0.005	0.30	11.0	27.0	38.0	71.0	10.0
		cream, eu to subhedral Hornblende phenos to 2mm.	41269	15.00-16.00	1.00	0.045	0.30	49.0	68.0	249.0	102.0	16.0
		ALTERATION- moderate pervasive and sheeted chlorite,	41270	16.00-17.00	1.00	0.008	0.30	17.0	23.0	55.0	80.0	3.0
		moderate to strong pervasive sericite, strong	41271	17.00-18.00	1.00	0.445	0.40	95.0	58.0	1237.0	75.0	10.0
		pervasive K-spar, weak to moderate patchy silica and	41272	18.00-19.00	1.00	0.720	0.50	233.0	68.0	1465.0	97.0	12.0
		chlorite/pyrite stringer selvages. Local wispy	41273	19.00-20.00	1.00	0.021	0.50	13.0	93.0	46.0	85.0	18.0
		hematite weak quartz/calcite veinlets and stockwork. 1	41274	20.00-21.00	1.00	0.580	0.50	17.0	128.0	131.0	76.0	17.0
		per 2m. at about 40 degrees, increasing towards lower	41275	21.00-22.00	1.00	0.013	0.30	10.0	3.0	4.0	85.0	3.0
		contact. Lower contact=sharp at about 70 degrees.	41276	22.00-23.00	1.00	0.160	0.30	10.0	7.0	2.0	94.0	3.0
<3.10-5.80>		Chlorite Streaming microveins 70°:sheeting 60° Trace SI patches Strong CL SHEETED Moderate KS pervasive Weak HE wispy Strong chlorite sheeting at about 60 degrees, braided fluid streaming; weak to moderate wispy hematite and in veins with calcite at about 70 degrees to 3mm.										
<7.10-9.00>		Trace MT stringer MINERALIZATION- 1% stringer pyrite.										
<7.10-9.00>		Moderate SI selvages Moderate CL pervasive Chlorite +/- pyrite stringers with silica/K-spar selvages at about 40 degrees. MINERALIZATION- 1% stringer pyrite.										
<18.00-21.00>		Weak MT stringer										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		1 % arsenopyrite - stringer										
		MINERALIZATION- 2% stringer pyrite, 1% stringer arsenopyrite, generally with chlorite, oriented at about 40 and 70 degrees. 1 per meter. Otherwise, no distinctive features.										
<18.00-21.00>		microveins 70°:microveins 40°										
		Weak S-zone. MINERALIZATION- 2% stringer pyrite, 1% stringer arsenopyrite, generally with chlorite, oriented at about 40 and 70 degrees. 1 per meter. Otherwise, no distinctive alteration features.										
26.75	44.20	mudstone	41277	23.00-24.00	1.00	0.120	0.30	8.0	7.0	10.0	65.0	15.0
		Aphanitic, black, foliated, spherulitic	41279	24.00-25.00	1.00	0.360	0.30	13.0	12.0	34.0	70.0	6.0
		foliated 45°	41280	25.00-26.00	1.00	0.105	0.30	12.0	15.0	47.0	70.0	3.0
		Frs=12/m :Vns =10/m	41281	26.00-26.75	0.75	0.650	0.30	8.0	11.0	32.0	104.0	17.0
		Moderate CB patches	41282	26.75-28.00	1.25	0.018	0.30	22.0	105.0	110.0	127.0	14.0
		Moderate MS patches	41283	28.00-29.00	1.00	0.003	0.30	21.0	150.0	30.0	82.0	3.0
		Trace PY disseminated	41284	29.00-30.00	1.00	0.005	0.30	20.0	130.0	24.0	66.0	7.0
		Trace PR disseminated	41285	30.00-31.00	1.00	0.004	0.30	22.0	116.0	21.0	72.0	4.0
		1 % pyrrhotite - disseminated	41286	31.00-32.00	1.00	0.032	0.30	27.0	127.0	31.0	84.0	3.0
		Strongly foliated black very fine grained mudstone,	41287	32.00-33.00	1.00	0.036	0.30	24.0	136.0	28.0	87.0	10.0
		intercalibrated with medium gray-green speckled	41288	33.00-34.00	1.00	0.015	0.30	25.0	140.0	27.0	91.0	5.0
		greywacke? beds or HFxl dykelettes, moderate patchy	41289	34.00-35.00	1.00	0.019	0.30	19.0	114.0	23.0	83.0	4.0
		sericite. Foliation likely remnant bedding at about 40	41290	35.00-36.00	1.00	0.015	0.30	21.0	141.0	17.0	88.0	9.0
		to 50 degrees, shallowing towards lower contact. Quite	41291	36.00-37.00	1.00	0.015	0.30	20.0	119.0	16.0	85.0	3.0
		undulated with carbonaceous layers and wormy folded	41292	37.00-38.00	1.00	0.033	0.30	22.0	154.0	16.0	93.0	6.0
		patches. Possibly perpetic textures in greenish gray	41293	38.00-39.00	1.00	0.003	0.30	22.0	154.0	12.0	89.0	3.0
		patches, light gray tabular crystals? to 0.8mm;	41294	39.00-40.00	1.00	0.005	0.30	21.0	144.0	9.0	95.0	3.0
		crystal tuff? HFxl dykelettes? Trace of pyrrhotite and	41295	40.00-41.00	1.00	0.009	0.30	24.0	178.0	16.0	92.0	3.0
		pyrite.	41296	41.00-42.00	1.00	0.025	0.30	26.0	150.0	21.0	99.0	4.0
<26.75-30.00>		foliated 50°										
		Foliated mudstone at about 50 degrees.										
<30.00-38.00>		foliated 40°										
		Foliated mudstone at about 40 degrees.										
<39.00-41.00>		foliated 35°										
		Foliation at about 35 degrees.										
<42.00-43.30>		foliated 40°	41297	42.00-43.00	1.00	0.007	0.30	23.0	123.0	19.0	78.0	8.0
		Foliation at about 40 degrees.										
<43.70-44.20>		Broken Core	41298	43.00-44.20	1.20	0.025	0.30	22.0	119.0	26.0	82.0	3.0
		gouge 80°:foliated 80°										
		Strong broken core with trace light gray very fine										

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
		grained gouge. 8mm. fine grained black gouge at about 80 degrees, serecitic foliation also at about 80 degrees.										
	(eoh)											

11/29/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-32

PROJECT: Clone	Date Commenced: 11/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-32	Date Completed: 11/07/96		Geotech by: DBL
LENGTH: 33.22	Core Diam: BQTK		

Collar Location	
Latitude:	2262.26
Departure:	1967.75
Elevation:	1446.65

S U M M A R Y

0.00-0.76	CASING
0.76-29.90	Biotite Hbl Fdsp xtalline ***
29.90-33.22	mudstone *

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	0.76	CASING										
		Casing.										
0.76	29.90	Biotite Hbl Fdsp xtalline	41299	0.76-2.00	1.24	0.350	0.30	24.0	94.0	52.0	80.0	20.0
		Gray, crystalline	41300	2.00-3.00	1.00	0.075	0.30	17.0	83.0	39.0	64.0	12.0
		Moderate SI patches	41301	3.00-4.00	1.00	0.018	0.30	16.0	92.0	21.0	169.0	12.0
		Moderate CL pervasive	41302	4.00-5.00	1.00	0.040	0.30	25.0	85.0	27.0	149.0	10.0
		Strong MS pervasive	41303	5.00-6.00	1.00	0.075	0.30	17.0	111.0	10.0	138.0	5.0
		Strong KS pervasive	41304	6.00-7.00	1.00	0.036	0.30	12.0	19.0	4.0	154.0	8.0
		Trace HE wispy	41305	7.00-8.00	1.00	0.380	0.30	17.0	43.0	42.0	87.0	8.0
		Weak QC stockwork	41306	8.00-9.00	1.00	0.013	0.30	10.0	33.0	15.0	102.0	12.0
		Medium to light gray, greenish gray near upper	41307	9.00-10.00	1.00	0.026	0.30	25.0	12.0	30.0	81.0	12.0
		contact. BHFl with 10 to 15% cream to pink to platy	41308	10.00-11.00	1.00	0.013	0.30	10.0	31.0	49.0	78.0	22.0
		brown Biotite phenos. Same cream ones conspiciously	41309	11.00-12.00	1.00	0.025	0.30	13.0	62.0	95.0	93.0	9.0
		like augites. 25% cream to pink to light translucent	41310	12.00-13.00	1.00	0.015	0.30	8.0	42.0	32.0	98.0	16.0
		green subhedral Hornblende phenos to 1.5mm. very fine	41311	13.00-14.00	1.00	0.012	0.30	24.0	62.0	120.0	87.0	31.0
		grained to aphanitic matrix. Foliated near lower	41312	14.00-15.00	1.00	0.017	0.30	10.0	46.0	23.0	92.0	15.0
		contact=50 degrees. ALTERATION- strong pervasive	41313	15.00-16.00	1.00	0.009	0.30	9.0	26.0	18.0	83.0	10.0
		sericite, moderate to weak green to gray chlorite,	41314	16.00-17.00	1.00	0.005	0.30	10.0	29.0	21.0	84.0	5.0
		locally towards upper contact. Moderate silica patchy	41315	17.00-18.00	1.00	0.007	0.30	29.0	22.0	124.0	114.0	3.0
		pervasive with less stringer selvages. Strong	41316	18.00-19.00	1.00	0.005	0.30	13.0	34.0	31.0	96.0	3.0
		pervasive K-spar. Weak quartz/calcite stockwork, local	41317	19.00-20.00	1.00	0.012	0.30	11.0	34.0	45.0	78.0	3.0
		wispy hematite.	41318	20.00-21.00	1.00	0.008	0.30	7.0	33.0	24.0	84.0	5.0
<4.95-5.00>		pyrite vein or veinlet										
		5mm. coarse grained pyrite stringers at about 40										
		degrees.										
<5.40-6.50>		Weak MT disseminated										
		MINERALIZATION- 2% medium grained disseminated pyrite.										
<5.40-6.50>		Chlorite Streaming										
		microveins 45°										
		Strong CL SHEETED										
		Moderate HE wispy										
		Strong pervasive chlorite, moderate wispy hematite										
		stockwork, often with calcite in irregular patches and										
		veins, commonly at about 45 degrees to 7mm.										
		MINERALIZATION- 2% medium grained disseminated pyrite.										
<7.00-16.00>		microveins 25°										
		Moderate SI patches										
		Weak CL wispy										
		Strong MS pervasive										
		Strong KS pervasive										
		ALTERATION- strong pervasive sericite K-spar, weak to										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		absent wispy black to dark gray chlorite, moderate patchy silica. Occasional hairline pyrite/chlorite stringer with silica/K-spar selvage at about 25 degrees.										
<17.00-18.10>		Chlorite Streaming sheeting 45° Strong CL SHEETED Strong braided chlorite streaming at about 45 degrees causing autobrecciated appearance.										
<28.10-28.30>		Trace MT coarse grained MINERALIZATION- 10% coarse grained pyrite as irregular veins to 1cm. at about 40 degrees, granular patches and disseminated. Associated with quartz/iron-carbonate, chlorite/sericite black to dark green sheeting at about 40 degrees. S-zone.	41319	21.00-22.00	1.00	0.520	0.50	18.0	72.0	125.0	80.0	10.0
			41320	22.00-23.00	1.00	0.275	0.30	9.0	9.0	14.0	94.0	5.0
			41321	23.00-24.00	1.00	0.250	0.30	12.0	11.0	35.0	81.0	7.0
			41322	24.00-25.00	1.00	0.105	0.30	12.0	12.0	15.0	77.0	3.0
			41323	25.00-26.00	1.00	0.120	0.30	14.0	8.0	45.0	83.0	4.0
			41324	26.00-27.00	1.00	0.540	0.30	14.0	10.0	90.0	89.0	5.0
<28.10-28.30>		Chlorite Streaming microveins 40°:sheeting 40° Intense CL SHEETED Strong MS SHEETED MINERALIZATION- 10% coarse grained pyrite as irregular veins to 1cm. at about 40 degrees, granular patches and disseminated. Associated with quartz/iron-carbonate, chlorite/sericite black to dark green sheeting at about 40 degrees. S-zone.	41325	27.00-28.00	1.00	7.210	1.10	32.0	26.0	469.0	125.0	22.0
<28.30-29.90>		Weak MT disseminated Weak PR disseminated 2 % pyrrhotite - disseminated MINERALIZATION- 2% disseminated pyrrhotite, 2% wispy disseminated pyrite within strongly foliated and autobrecciated BHFl at about 50 degrees.	41326	28.00-29.00	1.00	8.220	2.00	20.0	235.0	82.0	151.0	19.0
			41327	29.00-29.90	0.90	1.790	0.50	37.0	100.0	673.0	144.0	11.0
<28.30-29.90>		sheeting 50° MINERALIZATION- 2% disseminated pyrrhotite, 2% wispy disseminated pyrite within strongly foliated and autobrecciated BHFl at about 50 degrees.										
29.90	33.22	mudstone Aphanitic, black, foliated foliated 50° Weak CB patches Weak CV microveins Black to dark gray mudstone, strong foliation at about 50 degrees, likely remnant bedding. Local weak	41328	29.90-31.00	1.10	0.017	0.30	18.0	72.0	46.0	127.0	20.0
			41329	31.00-32.00	1.00	0.005	0.30	16.0	72.0	46.0	133.0	9.0
			41330	32.00-33.22	1.22	0.005	0.30	19.0	80.0	255.0	129.0	12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		carbonaceous layers and irregular light gray mottled fragments. MINERALIZATION- 1% disseminated pyrite, 1% disseminated pyrrhotite. ALTERATION- calcite veins weak at about 50 degrees. Obviously cooked due to nearly intrusive.										
<29.90-33.22>		Trace MT disseminated Trace PR disseminated 1 % pyrrhotite - disseminated MINERALIZATION- 1% disseminated pyrite, 1% disseminated pyrrhotite.										
(eoh)												

11/29/96

Hole: CL96-32 GEOTECHNICAL DATA

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-33

PROJECT: Clone	Date Commenced: 11/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-33	Date Completed: 11/07/96		Geotech by: DBL
LENGTH: 42.36	Core Diam: BQTK		

Collar Location

Latitude:	2262.24
Departure:	1968.01
Elevation:	1446.68

S U M M A R Y

0.00-0.97	CASING
0.97-36.50	Biotite Hbl Fdsp xtalline ***
36.50-42.37	*mudstone* *

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	0.97	CASING Casing.										
0.97	36.50	Biotite Hbl Fdsp xtalline	41331	0.93-2.00	1.07	0.034	0.30	23.0	61.0	37.0	77.0	12.0
		Green, crystalline	41332	2.00-3.00	1.00	0.040	0.30	29.0	122.0	54.0	89.0	8.0
		contact 40°	41333	3.00-4.00	1.00	0.080	0.80	71.0	285.0	370.0	76.0	11.0
		Frs=10/m :Vns =15/m	41334	4.00-5.00	1.00	0.070	0.40	50.0	207.0	150.0	104.0	3.0
		Weak SI patches	41335	5.00-6.00	1.00	0.058	0.30	32.0	59.0	67.0	87.0	4.0
		Moderate CL pervasive	41336	6.00-7.00	1.00	0.095	0.30	18.0	23.0	37.0	74.0	18.0
		Strong MS pervasive	41337	7.00-8.00	1.00	6.890	0.90	31.0	173.0	47.0	130.0	20.0
		Strong KS pervasive	41338	8.00-9.00	1.00	0.120	0.30	29.0	98.0	217.0	78.0	16.0
		Moderate QC microveins	41339	9.00-10.00	1.00	0.024	0.30	26.0	50.0	118.0	62.0	4.0
		Medium gray to green-gray, increasing green towards	41340	10.00-11.00	1.00	3.750	0.60	21.0	49.0	33.0	78.0	7.0
		upper contact with 5 to 10% cream to pink to brownish	41341	11.00-12.00	1.00	0.011	0.30	13.0	6.0	17.0	93.0	3.0
		gray Biotite +/- augite phenos to 5mm., 15 to 20%	41342	12.00-13.00	1.00	0.012	0.30	14.0	4.0	27.0	102.0	8.0
		subhedral light green translucent to cream to pink	41343	13.00-14.00	1.00	0.007	0.30	22.0	6.0	126.0	110.0	10.0
		Hornblende. Very fine grained to aphanitic matrix.	41344	14.00-15.00	1.00	0.012	0.30	18.0	57.0	81.0	121.0	9.0
		ALTERATION- strong pervasive sericite, moderate	41345	15.00-16.00	1.00	0.017	0.30	26.0	82.0	220.0	110.0	12.0
		pervasive chlorite decreasing to weak towards lower	41346	16.00-17.00	1.00	0.017	0.30	16.0	63.0	65.0	109.0	13.0
		contact, weak patchy silica, locally moderate.	41347	17.00-18.00	1.00	0.016	0.30	10.0	37.0	19.0	85.0	9.0
		Moderate irregular quartz/calcite stockwork. Lower	41348	18.00-19.00	1.00	0.016	0.30	10.0	49.0	19.0	104.0	6.0
		contact=sharp at about 40 degrees.	41349	19.00-20.00	1.00	0.015	0.30	16.0	49.0	74.0	98.0	13.0
	<2.40-4.30>	Broken Core Weak to moderate subangular to subrounded broken core with moderate limonite fracture fill and calcite leaching. Likely surficial weathering.										
	<7.80-8.10>	Weak MT stringer MINERALIZATION- 2% pyrite as stringers to 1mm. at about 40 degrees with less granular patches. One 2cm. calcite/chlorite/hematite vein at about 40 degrees. Strong sheeted chlorite.										
	<7.80-8.10>	Hematite chlorite calcite vein microveins 40° Strong CL SHEETED MINERALIZATION- 2% pyrite as stringers to 1mm. at about 40 degrees with less granular patches. One 2cm. calcite/chlorite/hematite vein at about 40 degrees, strong sheeted chlorite.										
	<17.00-24.00>	QUARTZ-CALCITE VEINS microveins 50° Moderate QC microveins Moderate calcite/quartz veins at about 50 degrees,	41350 41351 41352 41353	20.00-21.00 21.00-22.00 22.00-23.00 23.00-24.00	1.00 1.00 1.00 1.00	0.003 0.004 0.008 0.025	0.30 0.30 0.30 0.30	11.0 12.0 11.0 14.0	47.0 48.0 37.0 22.0	22.0 32.0 20.0 42.0	107.0 106.0 64.0 98.0	18.0 23.0 5.0 3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		average 8mm, up to 1.2mm. 6 per meter.										
<26.50-26.85>		Weak MT stringer	41354	24.00-25.00	1.00	0.890	0.50	38.0	15.0	359.0	112.0	13.0
		MINERALIZATION- 2% fracture fill and stringer pyrite.	41355	25.00-26.00	1.00	1.160	0.30	30.0	8.0	260.0	90.0	3.0
<26.50-26.85>		Broken Core										
		Moderate very soft broken core, subangular 1% very fine grained gouge. Weak foliation zone.										
		MINERALIZATION- 2% fracture fill and stringer pyrite.										
<27.00-36.00>		Trace CL wispy	41356	26.00-27.00	1.00	0.350	0.30	11.0	10.0	68.0	98.0	10.0
		Strong MS pervasive	41357	27.00-28.00	1.00	0.036	0.30	10.0	8.0	20.0	70.0	3.0
		Strong KS pervasive	41358	28.00-29.00	1.00	0.240	0.30	36.0	5.0	377.0	75.0	8.0
		ALTERATION- strong pervasive K-spar and sericite.	41359	29.00-30.00	1.00	0.185	0.30	24.0	6.0	231.0	70.0	11.0
		Trace to absent wispy black chlorite and dark green fracture fill.	41360	30.00-31.00	1.00	0.013	0.30	14.0	1.0	66.0	65.0	6.0
			41362	31.00-32.00	1.00	0.019	0.30	16.0	20.0	124.0	69.0	3.0
<36.00-36.50>		Chlorite Streaming	41363	32.00-33.00	1.00	0.070	0.30	23.0	8.0	201.0	71.0	4.0
		Foliated, auto brecciated	41364	33.00-34.00	1.00	0.006	0.30	15.0	2.0	147.0	67.0	3.0
		sheeting 40°	41365	34.00-35.00	1.00	0.014	0.30	17.0	2.0	187.0	67.0	6.0
		Strong CL SHEETED	41366	35.00-36.00	1.00	0.016	0.30	9.0	21.0	53.0	66.0	3.0
		Strong MS SHEETED	41367	36.00-36.50	0.50	2.560	0.90	34.0	125.0	587.0	163.0	23.0
		Strong chlorite/sericite shearing/autobrecciation at about 40 degrees. MINERALIZATION- 6% very fine grained to fine grained disseminated pyrrhotite, 2% medium grained disseminated pyrite, pyrrhotite possibly pseudomorphed after pyrite.										
<36.01-36.50>		Weak MT disseminated										
		?? PR disseminated										
		6 % pyrrhotite - disseminated										
		MINERALIZATION- 6% very fine grained to fine grained disseminated pyrrhotite, 2% medium grained disseminated pyrite, pyrrhotite possibly pseudomorphed after pyrite.										
36.50	42.37	mudstone	41368	36.50-37.00	0.50	0.095	0.40	28.0	137.0	218.0	172.0	21.0
		Aphanitic, blackish-black, foliated	41369	37.00-38.00	1.00	0.036	0.40	21.0	88.0	102.0	116.0	16.0
		foliated 30°:microveins 60°	41370	38.00-39.00	1.00	0.009	0.30	15.0	66.0	845.0	112.0	11.0
		Frs=6/m :Vns =3/m	41371	39.00-40.00	1.00	0.022	0.30	17.0	62.0	187.0	121.0	8.0
		Weak CB patches	41372	40.00-41.00	1.00	0.004	0.40	16.0	69.0	72.0	223.0	40.0
		Moderate MS pervasive	41373	41.00-42.37	1.37	0.009	0.30	16.0	68.0	39.0	114.0	16.0
		Trace PY disseminated										
		Weak PR disseminated										
		Moderate CV microveins										
		2 % pyrrhotite - disseminated										
		Black to dark gray foliated mudstone, likely remnant										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	bedding, moderate pervasive magnetic, likely pervasive magnetite, but 1% disseminated pyrrhotite, weak carbonaceous layers and irregular patches. Foliation 25 to 40 degrees, most commonly at about 30 degrees. MINERALIZATION- 1% disseminated pyrrhotite, 1% disseminated pyrite, weak calcite veins, often ? at about 60 degrees, 1 per meter, average 1cm. wide.										
<36.50-42.37>	Trace MT disseminated Trace PR disseminated 1 % pyrrhotite - disseminated MINERALIZATION- 1% diseminated pyrrhotite, 1% disseminated pyrite, weak calcite veins, often ? at about 60 degrees, 1 per meter, average 1cm. wide.										
<36.70-36.95>	Biotite Hbl Fdsp xtalline Fine grained, green, crystalline contact 40° Strong MS pervasive Medium green BHFl dykelette at about 40 degrees, with 30% light green translucent Hornblende phenos to 2mm. Strong pervasive sericite.										
(eoh)											

11/29/96

Hole: CL96-33 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 — CL96-34

PROJECT: Clone	Date Commenced: 11/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-34	Date Completed: 11/07/96		Geotech by: DBL
LENGTH: 41.76	Core Diam: BQTK		

Collar Location

Latitude:	2260.58
Departure:	1967.42
Elevation:	1446.36

SUMMARY

0.00-0.24	CASING
0.24-29.00	Biotite Hbl Fdsp xtalline ***
29.00-41.76	mudstone ***

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	240.00	-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	0.24	CASING	- - - -	-		-						
0.24	29.00	Biotite Hbl Fdsp xtalline	41374	0.24-1.00	0.76	0.890	0.40	106.0	98.0	149.0	82.0	3.0
		Fine grained, crystalline	41375	1.00-2.00	1.00	0.560	0.30	51.0	91.0	181.0	78.0	10.0
		Weak SI pervasive	41376	2.00-3.00	1.00	0.052	0.30	22.0	99.0	31.0	81.0	21.0
		Trace CL wispy	41377	3.00-4.00	1.00	0.115	0.30	12.0	81.0	26.0	163.0	10.0
		Strong MS pervasive	41378	4.00-5.00	1.00	0.028	0.30	14.0	81.0	11.0	168.0	15.0
		Strong KS pervasive	41379	5.00-6.00	1.00	0.052	0.30	15.0	2.0	2.0	87.0	3.0
		Trace PY wispy	41380	6.00-7.00	1.00	0.043	0.30	17.0	15.0	28.0	96.0	13.0
		Trace PR wispy	41381	7.00-8.00	1.00	0.028	0.30	16.0	61.0	23.0	98.0	3.0
		Weak CV patches	41382	8.00-9.00	1.00	0.008	0.30	14.0	29.0	16.0	87.0	3.0
		1 % pyrrhotite - wispy	41383	9.00-10.00	1.00	0.007	0.30	9.0	6.0	5.0	78.0	3.0
		Medium gray to green gray BHFl with 5% light gray to	41384	10.00-11.00	1.00	0.014	0.30	32.0	17.0	81.0	76.0	9.0
		cream Biotite/augite phenos. 25% light gray to cream	41385	11.00-12.00	1.00	0.045	0.30	14.0	52.0	37.0	83.0	3.0
		to translucent light green subhedral Hornblende phenos	41386	12.00-13.00	1.00	0.011	0.30	12.0	21.0	24.0	82.0	3.0
		to 1.5mm. ALTERATION- strong pervasive K-spar,	41387	13.00-14.00	1.00	0.015	0.30	15.0	47.0	54.0	109.0	13.0
		moderate to strong pervasive sericite, weak to absent	41388	14.00-15.00	1.00	0.010	0.30	22.0	56.0	75.0	119.0	3.0
		wispy chlorite, weak irregular calcite stockwork and	41389	15.00-16.00	1.00	0.620	0.70	229.0	65.0	2033.0	105.0	9.0
		fracture fill. Weak pervasive silica. Possible weak	41390	16.00-17.00	1.00	0.006	0.30	12.0	35.0	40.0	77.0	3.0
		zone near upper contact.	41391	17.00-18.00	1.00	0.013	0.30	12.0	38.0	38.0	85.0	4.0
	<0.65-0.75>	MINERALIZATION- 5% pyrite.										
	<0.65-0.75>	Hematite chlorite calcite vein macroveins 50°										
		Hemtite/calcite/chlorite vein, 2cm. wide at about 50 degrees with 5% coarse grained pyrite. MINERALIZATION- 5% pyrite.										
	<3.00-4.05>	Trace MT wispy Trace PR wispy 1 % pyrrhotite - wispy										
		MINERALIZATION- 1% wispy pyrite, 1% wispy pyrrhotite.										
	<3.00-4.05>	MINERALIZATION- 1% wispy pyrite, 1% wispy pyrrhotite.										
	<4.05-4.10>	Chlorite Streaming sheeting 75° Strong CL SHEETED Weak HE wispy										
		Weak wispy hematite with strong sheeted chorite at about 75 degrees.										
	<4.65-4.80>	ALTERATION- moderate wispy hematite, moderate pervasive chlorite, silica.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<12.00-16.50>		Broken Core fracturing 70° Moderate to strong broken core; trace medium grained gouge. Fractures at high angle to core access, commonly about 70 degrees, weak limonite fracture fill and bleaching.										
<25.50-27.75>		fracturing 40° Frs=25/m Weak to moderate broken core with weak gougy slips and fractures commonly at about 40 degrees, possible weak foliation zone.	41392	18.00-19.00	1.00	0.560	0.30	55.0	91.0	665.0	87.0	12.0
			41393	19.00-20.00	1.00	0.021	0.30	15.0	13.0	20.0	75.0	3.0
			41394	20.00-21.00	1.00	0.032	0.30	10.0	1.0	6.0	69.0	3.0
			41395	21.00-22.00	1.00	0.019	0.30	12.0	1.0	11.0	66.0	3.0
			41396	22.00-23.00	1.00	0.075	0.30	10.0	1.0	14.0	84.0	3.0
<27.75-29.00>		Weak MT wispy MINERALIZATION- 2% wispy pyrite, 2% pyrrhotite. Lower contact=rubbled broken core.	41397	23.00-24.00	1.00	0.090	0.30	10.0	9.0	23.0	67.0	3.0
			41398	24.00-25.00	1.00	6.720	1.70	11.0	70.0	20.0	56.0	9.0
			41399	25.00-26.00	1.00	0.085	0.30	10.0	75.0	20.0	65.0	3.0
<27.75-29.00>		Strong light green to intense sericite altered BHFl, foliated at about 35 degrees. MINERALIZATION- 2% wispy pyrite, 2% pyrrhotite. Lower contact=rubbled broken core.	41400	26.00-27.00	1.00	0.039	0.30	7.0	40.0	17.0	57.0	3.0
			41401	27.00-28.00	1.00	0.050	0.30	8.0	34.0	13.0	60.0	3.0
			41402	28.00-29.00	1.00	0.075	0.30	12.0	63.0	26.0	60.0	4.0
29.00	41.76	mudstone Aphanitic, blackish-black, foliated, mottled Frs=12/m Weak CB patches Moderate MS patches Weak MT pervasive Weak CV microveins Black to dark gray foliated often disrupted mudstone, often intercalibrated with olive green to green gray HFxl? dykes crytal tuffs graywacke? commonly sectioned eu to subhedral light green lathy speckles within aphanitic matrix, moderate to weak local patchy magnetism, likely magnetite, though pyrrhotite is present. Foliation at 50 to 30 degrees, commonly at about 35 or 40 degrees. Intriguing magnetism and very fine grained section mineralization.	41403	29.00-30.00	1.00	0.023	0.30	20.0	99.0	41.0	102.0	18.0
			41404	30.00-31.00	1.00	0.010	0.30	41.0	216.0	59.0	74.0	22.0
			41405	31.00-32.00	1.00	0.020	0.30	23.0	119.0	25.0	88.0	8.0
			41406	32.00-33.00	1.00	0.015	0.30	26.0	125.0	62.0	92.0	5.0
			41407	33.00-34.00	1.00	0.009	0.30	25.0	127.0	34.0	88.0	6.0
			41408	34.00-35.00	1.00	0.006	0.30	26.0	138.0	34.0	81.0	3.0
			41409	35.00-36.00	1.00	0.012	0.30	29.0	107.0	23.0	58.0	12.0
			41410	36.00-37.00	1.00	0.013	0.30	26.0	123.0	11.0	57.0	13.0
			41411	37.00-38.00	1.00	0.025	0.30	31.0	138.0	24.0	88.0	3.0
			41412	38.00-39.00	1.00	0.024	0.30	31.0	178.0	19.0	86.0	8.0
			41413	39.00-40.00	1.00	0.012	0.30	27.0	148.0	21.0	99.0	3.0
			41414	40.00-41.00	1.00	0.006	0.30	25.0	130.0	22.0	97.0	3.0
			41415	41.00-41.76	0.76	0.016	0.30	29.0	127.0	19.0	102.0	3.0
<29.00-29.50>		MINERALIZATION- 0.3% pyrrhotite, 0.5% pyrite.										
<29.00-29.50>		*Moderate MT pervasive* Moderate pervasive magnetite. MINERALIZATION- 0.3% pyrrhotite, 0.5% pyrite.										
<30.15-30.30>		Intense MT disseminated Strong PR disseminated										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	.2% chalcopyrite - disseminated .2% arsenopyrite - disseminated 4 % pyrrhotite - disseminated MINERALIZATION- 5% fine grained to medium grained pyrite, 4% fine grained to very fine grained pyrrhotite, trace arsenopyrite, trace calcopyrite, allas wispy disseminated and narrow stringers.										
<30.15-30.30>	Hornblende Feldspar xtalline Fine grained, green :contact 40° Weak MS pervasive HFxl? dykelette medium gray with possible light gray Hornblende needles to 1.5mm. MINERALIZATION- 5% fine grained to medium grained pyrite, 4% fine grained to very fine grained pyrrhotite, trace arsenopyrite, trace calcopyrite, all as wispy disseminated and narrow stringers.										
<34.00-40.00>	Trace MT disseminated Trace PR disseminated 1 % pyrrhotite - disseminated MINERALIZATION- 1.5% pyrite fine grained disseminated and wispy disseminated, 1.5% pyrrhotite fine grained disseminated and narrow stringers. Trace arsenopyrite with pyrrhotite in narrow stringers. Foliation 35 to 40 degrees, moderate to weak patchy pervasive magnetism with or without pyrrhotite.										
<34.00-40.00>	foliated 35° Weak MT pervasive MINERALIZATION- 1.5% pyrite fine grained disseminated and wispy disseminated, 1.5% pyrrhotite fine grained disseminated and narrow stringers. Trace arsenopyrite with pyrrhotite in narrow stringers. Foliation 35 to 40 degrees, moderate to weak patchy pervasive magnetism with or without pyrrhotite.										
<41.00-41.76>	foliated 45° Foliation 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 — CL96-35

PROJECT: Clone	Date Commenced: 12/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-35	Date Completed: 12/07/96		Geotech by: DBL
LENGTH: 42.67	Core Diam: BQTK		

Collar Location	
Latitude:	2162.09
Departure:	1968.07
Elevation:	1436.51

SUMMARY

0.00-0.20	CASING
0.20-29.87	Biotite Hbl Fdsp xtalline ******
29.87-34.16	mudstone *
34.16-37.44	Biotite Hbl Fdsp xtalline **
37.44-42.67	mudstone

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	285.00	-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	0.20	CASING										
0.20	29.87	Biotite Hbl Fdsp xtalline	41416	0.20-1.00	0.80	0.022	0.30	18.0	54.0	18.0	73.0	3.0
		Greenish-gray, crystalline, mottled	41417	1.00-2.00	1.00	0.260	0.30	22.0	43.0	50.0	54.0	3.0
		contact 40°	41418	2.00-3.00	1.00	0.180	0.30	11.0	12.0	18.0	58.0	3.0
		Frs=8/m :Vns =25/m	41419	3.00-4.00	1.00	0.013	0.30	13.0	32.0	53.0	55.0	3.0
		Weak SI patches	41420	4.00-5.00	1.00	0.165	0.30	28.0	89.0	54.0	65.0	3.0
		Weak CL patches	41421	5.00-6.00	1.00	0.395	0.30	32.0	106.0	97.0	74.0	6.0
		Moderate MS pervasive	41422	6.00-7.00	1.00	0.036	0.30	24.0	36.0	38.0	63.0	3.0
		Strong KS pervasive	41423	7.00-8.00	1.00	8.850	3.10	173.0	415.0	519.0	206.0	52.0
		Moderate QC stockwork	41424	8.00-9.00	1.00	1.940	1.50	70.0	965.0	88.0	115.0	8.0
		Medium green gray to medium gray weakly mottled BHFl	41425	9.00-10.00	1.00	1.710	1.60	65.0	792.0	122.0	200.0	12.0
		with 10% brown to cream Biotite phenos euhedral to	*41426*	*10.00-11.00*	*1.00*	*0.060*	*0.30*	*12.0*	*4.0*	*17.0*	*65.0*	*5.0*
		4mm. +/- augites? 25% cream to pink to light green	41428	11.00-12.00	1.00	0.065	0.30	15.0	43.0	27.0	115.0	5.0
		translucent Hornblende phenos, subhedral to 1.5m. very	41429	12.00-13.00	1.00	0.050	0.30	17.0	1.0	90.0	77.0	5.0
		fine grained to aphanitic matrix. ALTERATION- strong	41430	13.00-14.00	1.00	0.095	0.30	23.0	10.0	52.0	75.0	15.0
		pervasive K-spar, weak to moderate quartz/calcite	41431	14.00-15.00	1.00	0.011	0.30	18.0	46.0	38.0	73.0	15.0
		stockwork and patches, irregular orientation from 7.0	41432	15.00-16.00	1.00	0.005	0.30	23.0	4.0	179.0	77.0	12.0
		to 10.0m, moderate S-zone with coarse grained sections	41433	16.00-17.00	1.00	0.008	0.30	18.0	6.0	80.0	71.0	11.0
		and hematite. Lower contact= sharp at about 40 degrees	41434	17.00-18.00	1.00	0.140	0.30	13.0	38.0	49.0	84.0	7.0
		+/- calcite vein.	41435	18.00-19.00	1.00	0.040	0.30	7.0	1.0	24.0	80.0	3.0
<7.00-12.00>		Hematite/pyrite/calcite vein										
		Strong CL SHEETED										
		Moderate HE wispy										
		Strong QC macroveins										
		Moderate S-zone. Patchy irregular pyrite +/-										
		calcopyrite with rare rsenopyrite and hematite/calcite										
		+/- calcopyrite veins to 25cm. Slight pervasive										
		alteration difference from surrounding unit.										
<7.10-7.17>		MINERALIZATION- 25% pyrite.										
<7.10-7.17>		pyrite vein or veinlet										
		macroveins 70°										
		4cm. pyrite/calcite vein, irregular at about 70										
		degrees. MINERALIZATION- 25% pyrite.										
<7.54-7.86>		Weak MT coarse grained										
		MINERALIZATION- 20% coarse grained pyrite, 0.3%										
		arsenopyrite.										
<7.54-7.86>		Hematite/pyrite/calcite vein										
		macroveins 50°										
		Intense CL vein										
		Moderate HE wispy										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Coarse grained pyrite vein with hematite, calcite and black chlorite, rare arsenopyrite at about 50 degrees. MINERALIZATION- 20% coarse grained pyrite, 0.3% arsenopyrite.										
<7.88-8.00>	MINERLIZATION- 5% calcopyrite, 4% pyrite.										
<7.88-8.00>	Intense CL pervasive Intense pervasive chlorite. MINERALIZATION- 5% calcopyrite, 4% pyrite.										
<9.19-9.42>	calcite vein vein 50° Moderate HE wispy Calcite +/- quartz with mopderate wispy hematite, no section at 50 degrees.										
<9.70-9.79>	MINERALIZATION- 3% calcopyrite, 2% pyrite.										
<9.70-9.79>	calcite vein Moderate HE wispy Intense QC vein Quartz/calcite veins at about 70 degrees, weak wispy hematite. MINERALIZATION- 3% calcopyrite, 2% pyrite.										
<12.18-12.35>	Intense MT stringer MINERALIZATION- 5% pyrite as irregular fine grained stringers to 1mm., trace calcopyrite.										
<12.18-12.35>	MINERALIZATION- 5% pyrite as irregular fine grained stringers to 1mm., trace calcopyrite.										
<17.10-17.52>	Broken Core gouge 30°:microveins 45° Weak broken core with moderate to strong bleaching, weak to moderate fracture fill and pervasive limonite, trace calcareous, chloritic gouge. Calcite/chlorite veins to 1cm. at about 45 degrees.										
<22.10-26.40>	Weak to moderate broken core, weak to absent limonite fracture fill, moderate chlorite fracture fill.	41436	19.00-20.00	1.00	0.015	0.30	16.0	1.0	140.0	68.0	6.0
		41437	20.00-21.00	1.00	0.012	0.30	11.0	13.0	47.0	108.0	3.0
<27.10-29.87>	volcaniclastics Fine grained, dark green, foliated, auto brecciated foliated 60° Weak SI patches Strong CL SHEETED	41438	21.00-22.00	1.00	0.008	0.30	8.0	5.0	10.0	130.0	3.0
		41439	22.00-23.00	1.00	0.008	0.30	15.0	6.0	19.0	109.0	4.0
		41440	23.00-24.00	1.00	0.015	0.30	9.0	7.0	18.0	138.0	7.0
		41441	24.00-25.00	1.00	0.014	0.30	8.0	1.0	20.0	116.0	3.0
		41442	25.00-26.00	1.00	0.005	0.30	11.0	18.0	36.0	109.0	3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Intense MS pervasive	41443	26.00-27.00	1.00	0.010	0.30	10.0	101.0	29.0	93.0	4.0
		Weak PY patches	41444	27.00-28.00	1.00	9.950	2.20	55.0	189.0	850.0	93.0	30.0
		Weak PR patches	41445	28.00-29.00	1.00	0.420	0.30	50.0	37.0	1394.0	183.0	28.0
		2 % pyrrhotite - patches	41446	29.00-29.87	0.87	1.420	0.30	23.0	102.0	763.0	87.0	7.0
		Strongly autobrecciated foliated BHFl with 2 to 3% elongite Biotite/augite cream ? phenos, 25% cream to light green translucent sericite altered Hornblende phenos to 1.5cm., also elongite. Light apple green aphanitic matrix. ALTERATION- strong patchy sheeted, braided chlorite stringer, strong pervasive light green sericite, moderate to weak patchy silica, commonly within section. Foliation generally at about 60 degrees. Contact zone, with fair pyrite and pyrrhotite, and traces arsenopyrite.										
	<27.15-27.22>	Chlorite Streaming brecciated 60° Chloritic streaming and autobrecciattion with 20% coarse grained patchy pyrite and rotated pyritic fragments.										
	<27.60-27.75>	Broken Core foliated 60° Moderate broken core and intense chloritic +/- calcite and iron-carbonate, moderate limonite fracture fill.										
	<27.75-29.87>	Moderate PR disseminated 3 % pyrrhotite - disseminated MINERALIZATION- 3% patchy disseminated pyrrhotite, trace arsenopyrite.										
	<27.75-29.87>	MINERALIZATION- 3% patchy disseminated pyrrhotite, trace arsenopyrite.										
29.87	34.16	mudstone	41447	29.87-31.00	1.13	0.025	0.30	17.0	80.0	32.0	86.0	13.0
		Aphanitic, blackish-black	41448	31.00-32.00	1.00	0.010	0.30	15.0	65.0	31.0	128.0	5.0
		foliated 70°	41449	32.00-33.00	1.00	0.004	0.30	16.0	70.0	32.0	68.0	3.0
		Frs=5/m :Vns =2/m	41450	33.00-34.00	1.00	0.023	0.30	19.0	85.0	34.0	72.0	10.0
		Weak MT pervasive										
		Trace PY disseminated										
		Weak PR disseminated										
		Weak CV patches										
		2 % pyrrhotite - disseminated										
		Dark gray to massive black weakly foliated mudstone; foliation likely remnant bedding, commonly contorted, weak patchy calcite, weak pervasive magnetite?										
		MINERALIZATION- 1 to 2% disseminated pyrite, 1 to 2%										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		disseminated pyrrhotite. Lower contact=irregular.										
		<29.87-34.16> Trace MT disseminated Trace PR disseminated 1 % pyrrhotite - disseminated MINERALIZATION- 1 to 2% disseminated pyrite, 1 to 2% disseminated pyrrhotite. Lower contact=irregular.										
34.16	37.44	Biotite Hbl Fdsp xtalline Fine grained, green, foliated foliated 60°:contact 50° Frs=6/m :Vns =0/m Moderate CL SHEETED Intense MS pervasive Moderate KS pervasive Trace PY disseminated Weak PR disseminated 2 % pyrrhotite - disseminated BHFl? with 2% elongite augites likely, possibly Biotite, 25% light green translucent to beige subhedral Hornblende needles to 1.5mm., very fine grained to aphanitic matrix, strongly foliated at about 60 degrees. ALTERATION- strong pervasive sericite, increasing towards lower contact, weak to strong light brown chlorite, increasing braided and fluid streaming towards lower contact. Magnetic chlorite? Lower contact=calcite vein at about 50 degrees. Local pyrite/pyrrhotite +/- arsenopyrite and calcopyrite, mineralization in chlorite shears.	41451 41452 41453	34.00-35.00 35.00-36.00 36.00-37.44	1.00 1.00 1.44	0.410 0.880 0.062	0.50 0.30 0.30	28.0 83.0 25.0	222.0 107.0 93.0	31.0 782.0 22.0	95.0 71.0 106.0	3.0 5.0 3.0
		<34.60-34.65>MINERALIZATION- 30% pyrrhotite, trace arsenopyrite.										
		<34.60-34.65> MASSIVE SULPHIDE VEIN vein 60° 1cm. wide patchy pyrrhotite in with intense black chlorite and calcite at about 60 degrees. MINERALIZATION- 30% pyrrhotite, trace arsenopyrite.										
		<35.25-35.30>MINERALIZATION- 10% arsenopyrite, 25% pyrrhotite, trace calcopyrite.										
		<35.25-35.30> MASSIVE SULPHIDE VEIN 1cm. pyrrhotite/arsenopyrite/chlorite vein at about 50 degrees. MINERALIZATION- 10% arsenopyrite, 25% pyrrhotite, trace calcopyrite.										
37.44	42.67	mudstone	41454	37.44-39.00	1.56	0.008	0.30	21.0	113.0	21.0	159.0	3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Aphanitic, blackish-black, foliated	41455	39.00-40.00	1.00	0.007	0.30	27.0	108.0	91.0	91.0	8.0
		foliated 55°	41456	40.00-41.00	1.00	0.003	0.30	25.0	129.0	27.0	75.0	3.0
		Frs=12/m :Vns =5/m	41457	41.00-42.67	1.67	0.007	0.30	21.0	113.0	29.0	85.0	3.0
		Moderate CB patches										
		Weak MS patches										
		Weak MT pervasive										
		Trace PR disseminated										
		1 % pyrrhotite - disseminated										
		Strongly foliated black to medium gray mudstone.										
		Likely remnant bedding, commonly 45 to 65 degrees,										
		weak patchy pervasive magnetite? moderate local patchy										
		sericite replacing irregular HFxl dykelettes to 6cm.,										
		3 per meter, maybe altered greywacke or crystal tuff										
		beds. Moderate patchy calcite and iron-carbonate.										
		Trace to absent disseminated pyrrhotite.										
(eoh)												

11/29/96

Hole: CL96-35 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 — CL96-36

PROJECT: Clone	Date Commenced: 12/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-36	Date Completed: 12/07/96		Geotech by: DBL
LENGTH: 57.30	Core Diam: BQTK		

Collar Location

Latitude:	2161.96
Departure:	1968.63
Elevation:	1436.29

S U M M A R Y

0.00-0.25	CASING
0.25-34.29	Biotite Hbl Fdsp xtalline ***
34.29-40.88	mudstone
40.88-44.20	tuff ***
44.20-57.91	mudstone *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	285.00	-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	0.25	CASING Casing.										
0.25	34.29	Biotite Hbl Fdsp xtalline Greenish-gray, crystalline Frs=11/m :Vns =25/m Trace CL wispy Moderate MS pervasive Strong KS pervasive Strong QC stockwork Medium gray to green gray to medium gray green BHFl with 10 to 15% euhedral, cream to locally brown Biotite +/- Augite phenos to 5mm., 20% light to medium green translucent to speckled subhedral commonly cream hornblende needles and laths to 1.5mm., very fine grained to aphanitic matrix. ALTERATION- strong pervasive K-spar, moderate pervasive sericite, weak to absent patchy silica, strong to moderate quartz/calcite stockwork +/- iron-carbonate. Absent to moderate wispy chlorite, increasing towards lower contact. Lower contact=sharp irregular.	41459 41460 41461 41462 41463 41464 41465 41466 41467 41468 41469 41470 41471 41472 41473 41474 41475 41476	1.00-2.00 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	1.00 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 1.00	0.016 0.042 0.016 0.014 0.005 0.010 0.036 0.025 0.032 0.140 0.850 0.360 0.046 0.034 0.095 0.063 0.095 0.010	0.30 0.30 0.30 0.30 0.30 0.30 0.40 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.90 0.30 0.40 0.30	17.0 17.0 11.0 12.0 8.0 18.0 17.0 26.0 18.0 47.0 41.0 55.0 21.0 14.0 15.0 14.0 17.0 10.0	21.0 30.0 12.0 1.0 3.0 11.0 32.0 64.0 28.0 125.0 123.0 241.0 80.0 37.0 352.0 20.0 182.0 8.0	20.0 30.0 23.0 35.0 19.0 61.0 59.0 70.0 93.0 93.0 53.0 52.0 17.0 49.0 31.0 70.0 123.0 95.0	54.0 50.0 53.0 59.0 52.0 50.0 47.0 65.0 63.0 79.0 71.0 135.0 81.0 81.0 91.0 96.0 124.0 215.0	3.0 3.0 3.0 3.0 3.0 3.0 5.0 3.0 3.0 3.0 3.0 5.0 3.0 10.0 66.0 9.0 37.0 20.0
<10.90-11.25>		MINERALIZATION- 2% pyrrhotite, 1% pyrite, 1% wispy with hematite with irregular chlorite stringers.										
<10.90-11.25>		MASSIVE SULPHIDE VEIN Weak CL stringer Weak HE wispy MINERALIZATION- 2% pyrrhotite, 1% pyrite, 1% wispy with hematite with irregular chlorite stringers.										
<12.55-12.63>		Chlorite Streaming Chlorite streaming or shear zone at about 30 degrees; possibly breccia dyke, 1.5cm. wide with specks of hematite and pyrite.										
<15.25-15.55>		Weak MT disseminated Weak PR disseminated 2 % pyrrhotite - disseminated MINERALIZATION- very weak S-zone? 2% wispy disseminated pyrite, 2% disseminated pyrrhotite, 0.4% calcopyrite.										
<15.25-15.55>		MINERALIZATION- very weak S-zone? 2% wispy disseminated pyrite, 2% disseminated pyrrhotite, 0.4% calcopyrite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<17.70-21.00>		Broken Core	41477	19.00-20.00	1.00	0.048	0.30	12.0	4.0	76.0	97.0	3.0
		Weak to moderate broken core with weak local bleaching	41478	20.00-21.00	1.00	0.058	0.30	11.0	14.0	78.0	96.0	7.0
		and moderate limonite fracture fill. MINERALIZATION-										
		1% pyrrhotite with calcite in irregular stockwork,										
		trace calcopyrite.										
<25.90-26.20>		Moderate crumbly angular broken cire, irregular	41479	21.00-22.00	1.00	0.012	0.30	9.0	6.0	36.0	83.0	5.0
		fracture orientation, weak chlorite, trace limonite	41480	22.00-23.00	1.00	0.034	0.30	17.0	2.0	159.0	68.0	3.0
		fracture fill.	41481	23.00-24.00	1.00	0.035	0.30	19.0	4.0	173.0	63.0	4.0
<31.70-34.29>		Weak MT patches	41482	24.00-25.00	1.00	0.025	0.30	10.0	27.0	58.0	76.0	3.0
		Moderate PR disseminated	41483	25.00-26.00	1.00	0.018	0.30	7.0	15.0	55.0	105.0	11.0
		.2% chalcopyrite - wispy	41484	26.00-27.00	1.00	0.039	0.30	6.0	4.0	20.0	103.0	19.0
		3 % pyrrhotite - disseminated	41485	27.00-28.00	1.00	0.020	0.30	7.0	2.0	18.0	89.0	13.0
		MINERALIZATION- 3% patchy disseminated pyrrhotite, 2%	41487	28.00-29.00	1.00	0.014	0.30	8.0	3.0	18.0	78.0	4.0
		coarse grained pyrite patches, with traces of wispy	41488	29.00-30.00	1.00	0.025	0.30	16.0	15.0	105.0	92.0	10.0
		calcopyrite, 0.3% arsenopyrite. Contact zone?	41489	30.00-31.00	1.00	0.036	0.30	9.0	18.0	50.0	113.0	36.0
<31.70-34.29>		Bio/hbl/fldspr/porphyritic bx	41490	31.00-32.00	1.00	0.260	0.40	16.0	84.0	240.0	166.0	64.0
		Auto brecciated, foliated	41491	32.00-33.00	1.00	3.520	1.30	137.0	217.0	3878.0	121.0	37.0
		foliated 60°	41492	33.00-34.29	1.29	1.340	0.60	102.0	68.0	3781.0	331.0	115.0
		Moderate SI patches										
		Strong CL SHEETED										
		Strong MS pervasive										
		Moderate QC patches										
		Strongly autobrecciated contact brecciated BHFl with										
		up to 80% sub rounded BHFl fragments with										
		chloritic/serecitic +/- silica matrxi. Foliated weakly										
		at about 60 degrees. MINERALIZATION- 3% patchy										
		disseminated pyrrhotite, 2% coarse grained pyrite										
		patches, with traces of wispy calcopyrite, 0.3%										
		arsenopyrite. Contact zone?										
34.29	40.88	mudstone	41493	34.29-35.00	0.71	0.019	0.30	19.0	85.0	45.0	128.0	7.0
		Aphanitic, blackish-black, foliated	41494	35.00-36.00	1.00	0.009	0.30	16.0	64.0	36.0	98.0	3.0
		foliated 60°:contact 55°	41495	36.00-37.00	1.00	0.017	0.30	14.0	68.0	54.0	115.0	13.0
		Frs=6/m :Vns =3/m	41496	37.00-38.00	1.00	0.015	0.30	36.0	134.0	66.0	90.0	3.0
		Moderate MS patches	41497	38.00-39.00	1.00	0.003	0.30	25.0	105.0	44.0	77.0	7.0
		Weak MT pervasive	41498	39.00-40.00	1.00	0.005	0.30	27.0	139.0	171.0	89.0	3.0
		Weak PY disseminated	41499	40.00-40.88	0.88	0.013	0.30	35.0	141.0	113.0	99.0	3.0
		Trace PR disseminated										
		1 % pyrrhotite - disseminated										
		Massive black foliated mudstone, likely remant										
		bedding, layers after broken and contorted. Locally										
		cross cut by strongly serecitized olive green										
		irregular HFxl dykes and/or greywacke, crystal tuffs,										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		foliation steady at about 60 degrees. Weak to moderate patchy carbonaceous layers and irregular calcite veins and patches. Lower contact= sharp at about 55 degrees, weak pervasive magnetite.										
40.88	44.20	tuff Dark green, crystalline, foliated foliated 50° Frs=5/m :Vns =2/m Moderate CL SHEETED Intense MS pervasive Medium apple green strongly sericitized BHF1 with 5% euhedral subhedral elongite cream Biotite/Augite phenos to 3mm., 25% cream to light green translucent Biotite phenos to 1.5mm, very fine grained to aphantic matrix, foliated at about 55 to 45 degrees. ALTERATION- intense pervasive sericite, moderate sheeted chlorite, generally with sulphides. Lower contact=broken core.	41500 41501 41502	40.88-42.00 42.00-43.00 43.00-44.20	1.12 1.00 1.20	0.705 0.920 0.018	0.30 0.70 0.30	20.0 290.0 17.0	32.0 361.0 35.0	15.0 2776.0 16.0	56.0 57.0 77.0	3.0 4.0 3.0
		<40.88-42.20> Moderate PR disseminated 3 % pyrrhotite - disseminated MINERALIZATION- 3% disseminated pyrrhotite, trace calcopyrite, arsenopyrite.										
		<40.88-42.20>MINERALIZATION- 3% disseminated pyrrhotite, trace calcopyrite, arsenopyrite.										
		<42.20-42.40>MINERALIZATION- 10% pyrrhotite, 3% arsenopyrite, trace calcopyrite in 2, 3 and 1cm. respectively wide veins with strong chlorite at about 40 degrees.										
		<42.20-42.40> MASSIVE SULPHIDE VEIN macroveins 40° MINERALIZATION- 10% pyrrhotite, 3% arsenopyrite, trace calcopyrite in 2, 3 and 1cm. respectively wide veins with strong chlorite at about 40 degrees.										
		<42.40-44.20> Moderate PR disseminated 3 % pyrrhotite - disseminated MINERALIZATION- 3% disseminated pyrrhotite, trace calcopyrite, arsenopyrite.										
		<42.40-44.20>MINERALIZATION- 3% disseminated pyrrhotite, trace calcopyrite, arsenopyrite.										
44.20	57.91	mudstone	41503	44.20-45.00	0.80	0.010	0.30	25.0	96.0	25.0	121.0	3.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Fine grained, blackish-black, foliated, mottled	41504	45.00-46.00	1.00	0.016	0.30	28.0	142.0	25.0	97.0	8.0
	Weak CB patches	41505	46.00-47.00	1.00	0.006	0.30	25.0	120.0	27.0	88.0	3.0
	Weak MS patches	41506	47.00-48.00	1.00	0.065	0.30	26.0	146.0	20.0	113.0	5.0
	Weak MT pervasive	41507	48.00-49.00	1.00	0.024	0.30	32.0	130.0	10.0	100.0	28.0
	Trace PY disseminated	41508	49.00-50.00	1.00	0.020	0.30	31.0	164.0	29.0	86.0	3.0
	Weak PR disseminated	41509	50.00-51.00	1.00	0.010	0.30	25.0	134.0	18.0	85.0	3.0
	Weak CV microveins	41510	51.00-52.00	1.00	0.019	0.30	25.0	119.0	22.0	79.0	3.0
	2 % pyrrhotite - disseminated	41511	52.00-53.00	1.00	0.005	0.30	28.0	159.0	22.0	94.0	3.0
	Black to green gray to medium gray foliated mudstone	41512	53.00-54.00	1.00	0.024	0.30	31.0	148.0	34.0	90.0	3.0
	intercalibrated with irregular HFxl, greywacke and/or	41513	54.00-55.00	1.00	0.013	0.50	23.0	128.0	110.0	62.0	6.0
	crystal tuff layers. Foliation 10 to 60 degrees, quite	41514	55.00-56.00	1.00	0.017	0.30	21.0	114.0	15.0	66.0	3.0
	contorted. ALTERATION- weak pervasive magnetite, weak	41515	56.00-57.00	1.00	0.010	0.30	26.0	125.0	24.0	95.0	3.0
	patchy carbonate. Possible pepperitic explosive	41516	57.00-57.91	0.91	0.014	0.40	14.0	105.0	15.0	67.0	6.0
	textures. MINERALIZATION- 2% wispy disseminated										
	pyrrhotite, trace pyrite.										
<44.20-57.91>	Weak PR disseminated										
	2 % pyrrhotite - disseminated										
	MINERALIZATION- 2% wispy disseminated pyrrhotite,										
	trace pyrite.										
<50.00-54.75>	Broken Core										
	vein 70°										
	Medium gray greywacke? intercalibrated black mudstone										
	layers with patchy sericite HFxl or crystal tuff										
	layers/dykes. Foliation 70 to 80 degrees, likely										
	remnant bedding.										
<54.75-57.91>	greywacke										
	foliated 75°										
	Medium gray greywacke? intercalibrated black mudstone										
	layers with patchy sericite HFxl or crystal tuff										
	layers/dykes. Foliation 70 to 80 degrees, likely										
	remnant bedding.										
(eoh)											

11/29/96

Hole: CL96-36 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 — CL96-37

PROJECT: Clone	Date Commenced: 12/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-37	Date Completed: 12/07/96		Geotech by: DBL
LENGTH: 55.17	Core Diam: BQTK		

Collar Location

Latitude:	2161.75
Departure:	1968.63
Elevation:	1436.29

S U M M A R Y

0.00-41.85	Biotite Hbl Fdsp xtalline *****
41.85-55.47	mudstone *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	285.00	-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	41.85	Biotite Hbl Fdsp xtalline	41517	0.00-1.00	1.00	0.145	0.30	42.0	119.0	25.0	93.0	3.0
		Gray, crystalline	41518	1.00-2.00	1.00	1.480	0.80	96.0	489.0	42.0	82.0	3.0
		Frs=8/m :Vns =25/m	41519	2.00-3.00	1.00	0.520	0.30	53.0	294.0	34.0	78.0	3.0
		Weak SI pervasive	41520	3.00-4.00	1.00	0.105	0.30	16.0	31.0	18.0	69.0	3.0
		Weak CL wispy	41521	4.00-5.00	1.00	0.018	0.30	19.0	19.0	32.0	60.0	3.0
		Moderate MS pervasive	41522	5.00-6.00	1.00	0.080	0.30	34.0	30.0	55.0	77.0	3.0
		Strong KS pervasive	41523	6.00-7.00	1.00	0.435	0.30	27.0	33.0	64.0	68.0	3.0
		Strong QC microveins	41524	7.00-8.00	1.00	0.017	0.30	11.0	7.0	27.0	58.0	3.0
		Monotenous medium gray to medium green gray near upper	41525	8.00-9.00	1.00	0.009	0.30	7.0	24.0	17.0	71.0	3.0
		contact, BHFl with 5 to 8% cream to medium gray	41526	9.00-10.00	1.00	0.008	0.30	15.0	1.0	30.0	68.0	3.0
		speckled subhedral lathy Hornblende phenos to 1.5mm.,	41527	10.00-11.00	1.00	0.016	0.30	16.0	66.0	78.0	110.0	7.0
		very fine grained to aphanitic matrix. ALTERATION-	41528	11.00-12.00	1.00	0.120	0.30	18.0	90.0	192.0	51.0	9.0
		strong pervasive K-spar, weak to moderate patchy	41529	12.00-13.00	1.00	0.075	0.30	32.0	62.0	380.0	63.0	3.0
		pervasive silica, moderate to strong pervasive	41530	13.00-14.00	1.00	0.059	0.30	29.0	66.0	201.0	64.0	3.0
		sericite, weak wispy chlorite, locally absent strong	41531	14.00-15.00	1.00	0.058	0.30	15.0	14.0	70.0	56.0	17.0
		irregular quartz/calcite stockwork. Traces of	41532	15.00-16.00	1.00	0.042	0.30	11.0	33.0	67.0	70.0	30.0
		hematite/magnetite mineralization near upper contact,	41533	16.00-17.00	1.00	0.026	0.30	9.0	27.0	31.0	68.0	66.0
		otherwise rare sulphides.	41534	17.00-18.00	1.00	0.010	0.30	19.0	8.0	135.0	69.0	17.0
	<0.50-1.90>	Weak MT disseminated										
		MINERALIZATION- 2% fine grained disseminated pyrite.										
	<0.50-1.90>	Chlorite Streaming										
		sheeting 35°										
		Moderate CL SHEETED										
		Weak MT SHEETED										
		Moderate HE wispy										
		Moderate microfracture controlled hematite; with										
		lesser sheeting at about 35 degrees with magnetite.										
		Moderate to strong chloritic braided sheeting.										
		MINERALIZATION- 2% fine grained disseminated pyrite.										
	<14.30-15.90>	Weak MT stringer										
		MINERALIZATION- 2% wispy very fine grained pyrite										
		stringers to 1mm., trace disseminated hematite, local										
		moderate bleaching and weak limonite fracture fill.										
	<14.30-15.90>	MINERALIZATION- 2% wispy very fine grained pyrite										
		stringers to 1mm., trace disseminated heamtite, local										
		moderate bleaching and weak limonite fracture fill.										
	<18.20-18.51>	MINERALIZATION- 4% wispy pyrite.										
	<18.20-18.51>	QUARTZ VEIN										
		Rusty quartz/pyrite/calcite veins to 1cm. with										
		moderate pervasive hematite within wallrock at about										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		70 degrees. MINERALIZATION- 4% wispy pyrite.										
<23.50-24.40>		?? MT disseminated	41535	18.00-19.00	1.00	0.009	0.30	10.0	10.0	38.0	61.0	11.0
		Weak PR disseminated	41536	19.00-20.00	1.00	0.023	0.30	8.0	45.0	42.0	88.0	5.0
		.2% chalcopyrite - disseminated	41537	20.00-21.00	1.00	0.052	0.30	11.0	94.0	61.0	98.0	7.0
		.2% arsenopyrite - disseminated	41538	21.00-22.00	1.00	0.019	0.30	8.0	16.0	40.0	81.0	3.0
		2 % pyrrhotite - disseminated	41539	22.00-23.00	1.00	0.043	0.30	11.0	19.0	120.0	89.0	3.0
		MINERALIZATION- 2% disseminated pyrrhotite within	41540	23.00-24.00	1.00	0.085	0.30	12.0	11.0	31.0	77.0	3.0
		irregular calcite stockwork, trace disseminated										
		arsenopyrite, pyrite, calcopyrite.										
<23.50-24.40>		Very, very weak S-zone? MINERALIZATION- 2%										
		disseminated pyrrhotite within irregular calcite										
		stockwork, trace disseminated arsenopyrite, pyrite,										
		calcopyrite.										
<27.60-28.40>		Broken Core	41541	24.00-25.00	1.00	0.077	0.30	10.0	2.0	35.0	83.0	3.0
		Moderate to strong angular broken core, trace magnetic	41542	25.00-26.00	1.00	0.024	0.30	11.0	1.0	24.0	95.0	3.0
		gouge and weak limonite fracture fill inconsistent	41543	26.00-27.00	1.00	0.012	0.30	15.0	1.0	32.0	89.0	3.0
		fracture orientation.	41544	27.00-28.00	1.00	0.006	0.30	13.0	1.0	49.0	74.0	3.0
<31.30-32.10>		Weak MT stringer	41545	28.00-29.00	1.00	0.039	0.30	28.0	4.0	147.0	86.0	6.0
		MINERALIZATION- 2% pyrite as stringers to 2mm. with	41546	29.00-30.00	1.00	0.056	0.30	9.0	3.0	21.0	88.0	11.0
		less disseminated and within quartz/calcite stockwork.	41547	30.00-31.00	1.00	0.210	0.30	23.0	11.0	90.0	115.0	4.0
<31.30-32.10>		MINERALIZATION- 2% pyrite as stringers to 2mm. with	41548	31.00-32.00	1.00	0.020	0.30	22.0	10.0	208.0	100.0	11.0
		less disseminated and within quartz/calcite stockwork.										
<36.30-37.50>		Broken Core	41549	32.00-33.00	1.00	0.015	0.30	19.0	11.0	117.0	98.0	9.0
		qz-carb veining 70°	41550	33.00-34.00	1.00	0.010	0.30	13.0	4.0	53.0	90.0	3.0
		Strong SI pervasive	41551	34.00-35.00	1.00	0.021	0.30	14.0	21.0	82.0	88.0	5.0
		Strong QC vein	41552	35.00-36.00	1.00	0.006	0.30	13.0	25.0	27.0	107.0	6.0
		Weak angular broken core; strong silica as pervasive	41553	36.00-37.00	1.00	0.018	0.30	15.0	47.0	50.0	644.0	33.0
		and 15cm. late vein with calcie.										
41.85	55.47	mudstone	41554	37.00-38.00	1.00	0.008	0.30	6.0	3.0	13.0	85.0	3.0
		Folded, foliated	41555	38.00-39.00	1.00	0.004	0.30	6.0	3.0	14.0	62.0	3.0
		foliated 45°	41556	39.00-40.00	1.00	0.026	0.30	10.0	9.0	148.0	75.0	5.0
		Frs=12/m :Vns =20/m	41557	40.00-41.00	1.00	0.047	0.30	15.0	13.0	112.0	92.0	3.0
		Black to dark gray mudstone intercalibrated with	41558	41.00-42.00	1.00	0.024	0.30	10.0	10.0	19.0	77.0	3.0
		granular olive green to dark gray carbonaceous HFxl	41559	42.00-43.00	1.00	0.008	0.30	12.0	18.0	25.0	80.0	3.0
		and/or greywacke and/or crystal tuffs. Irregular	41560	43.00-44.00	1.00	0.012	0.30	10.0	21.0	25.0	90.0	3.0
		highly contorted contacts between individual layers.	41561	44.00-45.00	1.00	0.019	0.30	13.0	29.0	116.0	72.0	3.0
		Intensely folded "wormy" calcite veins. ALTERATION-	41562	45.00-46.00	1.00	0.009	0.30	12.0	142.0	25.0	81.0	5.0
		weak patchy sericite, moderate patchy carbonate with	41563	46.00-47.00	1.00	0.032	0.40	11.0	90.0	193.0	70.0	4.0
		lesser irregular microveins and wormy stockwork. Rare	41564	47.00-47.85	0.85	0.035	0.30	14.0	67.0	263.0	86.0	7.0
		quartz/cabronate veins. Rare graphite fracture fill,	41565	47.85-49.00	1.15	0.011	0.30	26.0	151.0	33.0	87.0	3.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	trace pervasive magnetite. MINERALIZATION- trace to 1%	41566	49.00-50.00	1.00	0.012	0.30	30.0	147.0	209.0	79.0	3.0
	disseminated pyrite, trace to 1% disseminated	41567	50.00-51.00	1.00	0.005	0.30	27.0	124.0	61.0	79.0	3.0
	pyrrhotite. Foliation inconsistant at about 45	41568	51.00-52.00	1.00	0.004	0.30	24.0	158.0	25.0	202.0	15.0
	degrees.	41569	52.00-53.00	1.00	0.009	0.30	38.0	181.0	33.0	119.0	9.0
<41.85-55.47>	?? MT disseminated	41570	53.00-54.00	1.00	0.006	0.30	29.0	153.0	21.0	90.0	3.0
	?? PR disseminated	41571	54.00-55.00	1.00	0.010	0.30	21.0	118.0	16.0	90.0	3.0
	.5% pyrrhotite - disseminated	41572	55.00-55.47	0.47	0.015	0.30	23.0	172.0	15.0	101.0	3.0
	MINERALIZATION- trace to 1% disseminated pyrite, trace										
	to 1% disseminated pyrrhotite. Foliation inconsistant										
	at about 45 degrees.										
<50.85-52.30>	gouge										
	gouge 45°										
	Weak graphitic gougy slips at about 45 degrees, with										
	weak limonite fracture fill.										
(eoh)											

11/29/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-38

PROJECT: Clone	Date Commenced: 12/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-38	Date Completed: 14/07/96		Geotech by: DBL
LENGTH: 243.54	Core Diam: BQTK		

Collar Location

Latitude:	2002.30
Departure:	2059.82
Elevation:	1373.35

S U M M A R Y

0.00-1.06	CASING
1.06-43.05	Hornblende Feldspar xtalline **
43.05-88.35	Hornblende Feldspar xtalline ****
88.35-102.70	Biotite Hbl Fdsp xtalline *
102.70-129.30	Hornblende Feldspar xtalline **
129.30-129.50	gouge
129.50-175.50	Hornblende Feldspar xtalline *******
175.50-193.10	Hornblende Feldspar xtalline
193.10-194.50	Biotite Hbl Fdsp xtalline
194.50-196.30	Broken Core
196.30-202.00	Biotite Hbl Fdsp xtalline
202.00-217.50	gabbro *
217.50-233.00	Hornblende Feldspar xtalline
233.00-243.55	tuff *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	250.00	-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	1.06	CASING Casing.										
1.06	43.05	Hornblende Feldspar xtalline	41573	1.06-2.00	0.94	0.006	0.30	8.0	60.0	10.0	31.0	3.0
		Fine grained, green, massive	41574	2.00-3.00	1.00	0.003	0.30	8.0	47.0	29.0	30.0	3.0
		vein 70°	41575	3.00-4.00	1.00	0.003	0.30	6.0	37.0	29.0	41.0	3.0
		Frs=10/m :Vns =25/m	41576	4.00-5.00	1.00	0.006	0.30	7.0	27.0	13.0	31.0	3.0
		Moderate CL pervasive	41577	5.00-6.00	1.00	0.004	0.30	7.0	18.0	12.0	29.0	3.0
		Weak MS pervasive	41578	6.00-7.00	1.00	0.002	0.30	6.0	10.0	11.0	27.0	3.0
		Moderate KS pervasive	41579	7.00-8.00	1.00	0.002	0.30	8.0	14.0	8.0	29.0	3.0
		Trace EP microveins	41580	8.00-9.00	1.00	0.003	0.30	8.0	8.0	13.0	24.0	3.0
		Moderate HE wispy	41581	9.00-10.00	1.00	0.020	0.30	28.0	7.0	11.0	25.0	3.0
		Moderate CV microveins	41582	10.00-11.00	1.00	0.019	0.30	28.0	6.0	10.0	26.0	3.0
		Medium green, commonly speckled to streaked red medium	41583	11.00-12.00	1.00	0.041	0.30	27.0	8.0	7.0	26.0	3.0
		green HFxl with 25% commonly cryptic subhedral	41584	12.00-13.00	1.00	0.004	0.30	19.0	27.0	11.0	28.0	3.0
		Hornblende phenos to 1.5mm., rare euhedral copper	41585	13.00-14.00	1.00	0.004	0.30	8.0	83.0	9.0	27.0	3.0
		Biotite phenos, possible light green gray Biotites or	41586	14.00-15.00	1.00	0.002	0.30	7.0	24.0	9.0	33.0	3.0
		oikiocrysts increasing near upper contact. Fine	41587	15.00-16.00	1.00	0.030	0.30	5.0	47.0	14.0	32.0	3.0
		grained to very fine grained matrix, ? towards upper	41588	16.00-17.00	1.00	0.003	0.30	5.0	49.0	12.0	27.0	3.0
		contact. ALTERATION- moderate to strong forest green	41589	17.00-18.00	1.00	0.006	0.30	10.0	45.0	6.0	39.0	3.0
		pervasive chlorite, weak light green pervasive	41590	18.00-19.00	1.00	0.004	0.30	10.0	21.0	4.0	34.0	3.0
		sericite, moderate patchy and wispy hematite, commonly	41591	19.00-20.00	1.00	0.002	0.30	9.0	13.0	14.0	33.0	3.0
		with calcite, local pervasive moderate calcite +/-	41592	20.00-21.00	1.00	0.010	0.30	8.0	6.0	14.0	44.0	3.0
		epidote stockwork, commonly at about 70 degrees.	41593	21.00-22.00	1.00	0.008	0.30	7.0	40.0	10.0	39.0	3.0
		Hematite stockwork zone.	41594	22.00-23.00	1.00	0.002	0.30	8.0	41.0	9.0	40.0	5.0
<1.06-13.20>		Broken Core Moderate rubbly broken core with moderate to strong limonite fracture fill. Inconsistent fracture orientation. Likely due to surficial weathering.										
<3.20-4.20>		sheeting 40° Moderate KS SHEETED Moderate hematite sheeting at about 40 degrees.										
<5.50-17.20>		calcite vein vein 70° Weak EP microveins Moderate CV microveins Calcite +/- epidote stockwork, moderate with 30% microveins per meter, average 5mm. inconsistently oriented at about 70 degrees. Local patchy pervasive epidote.										
<27.00-27.12>		Intense MT patches	41595	23.00-24.00	1.00	0.006	0.30	9.0	55.0	10.0	36.0	3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- 5% coarse grained mottled slightly	41596	24.00-25.00	1.00	0.009	0.30	10.0	110.0	5.0	40.0	3.0
		oxidized pyrite as granular patches with less	41597	25.00-26.00	1.00	0.005	0.30	11.0	48.0	5.0	45.0	3.0
		disseminated.	41598	26.00-27.00	1.00	0.003	0.30	11.0	62.0	5.0	47.0	3.0
	<27.00-27.12>	MINERALIZATION- 5% coarse grained mottled slightly										
		oxidized pyrite as granular patches with less										
		disseminated.										
	<27.80-32.80>	Broken Core	41599	27.00-28.00	1.00	0.007	0.30	13.0	69.0	40.0	51.0	4.0
		foliated 70°	41600	28.00-29.00	1.00	0.005	0.30	11.0	12.0	47.0	54.0	3.0
		Strong SI pervasive	41601	29.00-30.00	1.00	0.006	0.30	12.0	20.0	32.0	53.0	7.0
		Moderate to strong bleaching and pervasive	41602	30.00-31.00	1.00	0.004	0.30	13.0	25.0	30.0	44.0	8.0
		silification within moderate subangular broken core,	41603	31.00-32.00	1.00	0.002	0.30	10.0	17.0	22.0	55.0	6.0
		weak moderate limonite fractue fill and calcite										
		leaching, local weak foliation at about 70 degrees.										
	<36.00-36.50>	MINERALIZATION- 10% stringer pyrite/hematite, oriented	41604	32.00-33.00	1.00	0.005	0.30	13.0	56.0	32.0	55.0	4.0
		at about 30 to 50 degrees.	41605	33.00-34.00	1.00	0.007	0.30	10.0	89.0	39.0	84.0	36.0
	<36.00-36.50>	MASSIVE SULPHIDE VEIN	41606	34.00-35.00	1.00	0.023	0.30	33.0	57.0	23.0	222.0	4.0
		stockwork 40°	41607	35.00-36.00	1.00	0.020	0.30	33.0	37.0	11.0	122.0	3.0
		MINERALIZATION- 10% stringer pyrite/hematite, oriented										
		at about 30 to 50 degrees.										
	<36.80-38.55>	Broken Core	41608	36.00-37.00	1.00	0.015	0.30	29.0	56.0	14.0	98.0	3.0
		fracturing 10°	41609	37.00-38.00	1.00	0.008	0.30	27.0	9.0	28.0	66.0	3.0
		Moderate angular broken core with strong limonite										
		fracture fill. Fractures at about 5 to 15 degrees to										
		core axis.										
	<40.20-43.05>	Strong subangular broken core within HFxl, commonly	41610	38.00-39.00	1.00	0.029	0.30	12.0	18.0	22.0	38.0	3.0
		rubbly 1 to 2% rusty fine grained gouge, moderate	41611	39.00-40.00	1.00	0.006	0.30	15.0	47.0	6.0	40.0	3.0
		bleaching. Inconsistent.	41612	40.00-41.00	1.00	0.020	0.30	14.0	141.0	28.0	49.0	6.0
43.05	88.35	Hornblende Feldspar xtalline	41613	41.00-42.00	1.00	0.010	0.30	13.0	102.0	11.0	47.0	3.0
		Fine grained, red, massive	41614	42.00-43.00	1.00	0.024	0.30	8.0	151.0	12.0	50.0	3.0
		foliated 30°	41615	43.00-44.00	1.00	0.027	0.30	8.0	9.0	15.0	53.0	3.0
		Frs=8/m :Vns =25/m	41616	44.00-45.00	1.00	0.021	0.60	18.0	132.0	17.0	65.0	3.0
		Weak SI pervasive	41617	45.00-46.00	1.00	0.002	0.40	8.0	341.0	5.0	38.0	3.0
		Moderate CL pervasive	41618	46.00-47.00	1.00	0.007	0.30	9.0	59.0	8.0	37.0	4.0
		Weak MS patches	41619	47.00-48.00	1.00	0.004	0.30	10.0	74.0	13.0	42.0	6.0
		Moderate KS pervasive	41620	48.00-49.00	1.00	0.016	0.30	6.0	129.0	40.0	61.0	3.0
		Trace EP patches	41621	49.00-50.00	1.00	0.013	0.30	6.0	156.0	12.0	48.0	6.0
		Strong HE pervasive	41622	50.00-51.00	1.00	0.013	0.30	7.0	61.0	5.0	51.0	7.0
		Moderate CV microveins	41623	51.00-52.00	1.00	0.026	0.30	8.0	26.0	8.0	76.0	6.0
		Weak QC microveins	41624	52.00-53.00	1.00	0.020	0.30	7.0	16.0	3.0	69.0	5.0
		Medium to dark red HFxl with common medium green	41625	53.00-54.00	1.00	0.012	0.30	7.0	15.0	7.0	60.0	6.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		patches, intercalated and/or phase transition with	41626	54.00-55.00	1.00	0.029	0.30	14.0	56.0	27.0	124.0	14.0
		BHFl. 5% to usually absent euhedral copper coloured	41627	55.00-56.00	1.00	0.006	0.30	8.0	24.0	4.0	50.0	6.0
		fine grained medium green euhedral Biotite phenos to	41628	56.00-57.00	1.00	0.013	0.30	6.0	273.0	6.0	35.0	4.0
		3mm. Upto 25% subhedral translucent light green	41629	57.00-58.00	1.00	0.015	0.30	6.0	189.0	5.0	31.0	5.0
		Hornblende needles and laths to 1.5mm., usually masked	41630	58.00-59.00	1.00	0.004	0.30	7.0	12.0	4.0	58.0	3.0
		by strong pervasive hematite, very fine grained to	41631	59.00-60.00	1.00	0.005	0.30	6.0	8.0	3.0	59.0	3.0
		aphanitic massive sulphide. Local folaition at about	41632	60.00-61.00	1.00	0.008	0.30	6.0	31.0	5.0	35.0	4.0
		30 degrees. ALTERATION- very strong pervasive	41633	61.00-62.00	1.00	0.008	0.30	12.0	38.0	14.0	33.0	7.0
		hematite, locally wispy and microfracture	41634	62.00-63.00	1.00	0.015	0.30	18.0	25.0	5.0	27.0	4.0
		controlled moderate pervasive chlorite, patchy light	41635	63.00-64.00	1.00	0.003	0.30	5.0	90.0	4.0	25.0	4.0
		green moderate sericite, moderate to strong pervasive	41636	64.00-65.00	1.00	0.005	0.30	5.0	65.0	6.0	33.0	8.0
		K-spar?, moderate calcite stockwork weak H-zone? weak	41637	65.00-66.00	1.00	0.003	0.30	7.0	11.0	6.0	30.0	5.0
		to moderate pervasive silica.	41638	66.00-67.00	1.00	0.001	0.30	9.0	37.0	5.0	30.0	5.0
<48.00-49.38>		Moderate MT fine grained										
		MINERALIZATION- 3% fine grained pyrite as fracture										
		fill and stringers at about 30 degrees to core axis.										
<48.00-49.38>		Broken Core										
		microveins 30°										
		Strong angular to rubbly broken core, moderate to										
		strong limonite fracture fill. MINERALIZATION- 3% fine										
		grained pyrite as fracture fill and stringers at about										
		30 degrees to core axis.										
<53.30-54.50>		foliated 30°										
		Strong MS pervasive										
		Strong HE wispy										
		Strong pervasive sericite and blood red wispy										
		hematite, foliated with braided hematite causing										
		autobrecciated appearance at about 30 degrees.										
<56.45-57.15>		Strong MS pervasive										
		Moderate HE wispy										
		Moderate wispy microfracture controlled hematite,										
		strong patchy pervasive sericite.										
<63.10-64.80>		Biotite Hbl Fdsp xtalline										
		Fine grained, crystalline										
		Possible transition phase between HFxl; no obvious										
		contacts. 4% copper coloured euhedral Biotite phenos										
		to 4mm.										
<65.00-71.00>		Strong SI pervasive	41639	67.00-68.00	1.00	0.004	0.30	12.0	141.0	6.0	40.0	7.0
		Strong HE pervasive	41640	68.00-69.00	1.00	0.002	0.30	13.0	268.0	4.0	42.0	7.0
		Strong pervasive hematite, silica. Slightly mottled	41641	69.00-70.00	1.00	0.003	0.70	12.0	668.0	6.0	50.0	6.0
		appearance in otherwise massive dark red HFxl, local	41642	70.00-71.00	1.00	0.052	7.10	12.0	1366.0	37.0	75.0	6.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	moderate patchy yellow green sericite.										
<71.85-72.75>	foliated 30° Strong pervasive hematite, moderate patchy pervasive silica; strong foliation at about 30 degrees.	41643	71.00-72.00	1.00	0.010	0.30	9.0	82.0	3.0	159.0	7.0
<75.91-75.99>	MINERALIZATION- 5% disseminated calcopyrite, parallel with foliation at about 30 degrees.	41644	72.00-73.00	1.00	0.016	0.30	15.0	99.0	5.0	93.0	5.0
		41645	73.00-74.00	1.00	0.012	0.30	7.0	154.0	2.0	85.0	5.0
<75.91-75.99>	foliated 30° MINERALIZATION- 5% disseminated calcopyrite, parallel with foliation at about 30 degrees.	41646	74.00-75.00	1.00	0.007	0.30	5.0	16.0	2.0	56.0	4.0
<76.18-76.21>	Hematite chlorite calcite vein vein 80° Moderate MT vein 1.2cm. magnetite/hematite/calcite/chlorite vein at about 80 degrees.	41647	75.00-76.00	1.00	0.064	0.60	15.0	350.0	13.0	69.0	9.0
<76.40-81.80>	Biotite Hbl Fdsp xtalline Moderate CL pervasive Moderate MS pervasive Moderate HE wispy Medium green BHFl with 3% light gray to light green Biotite phenos to 3mm., locally copper coloured. ALTERATION- moderate pervasive chlorite, sericite with moderate microfracture controlled with less pervasive hematite.	41648	76.00-77.00	1.00	0.295	0.40	16.0	156.0	10.0	78.0	64.0
		41649	77.00-78.00	1.00	0.013	0.30	9.0	47.0	11.0	67.0	26.0
		41650	78.00-79.00	1.00	0.010	0.30	8.0	15.0	12.0	71.0	44.0
		41651	79.00-80.00	1.00	0.095	0.30	23.0	117.0	6.0	89.0	174.0
		41652	80.00-81.00	1.00	0.012	0.30	10.0	60.0	2.0	69.0	102.0
<82.60-83.45>	Strong MT stringer MINERALIZATION- 4% fine grained pyrite stringers at about 30 degrees.	41653	81.00-82.00	1.00	0.060	0.30	19.0	86.0	6.0	134.0	49.0
		41654	82.00-83.00	1.00	1.080	0.30	31.0	16.0	70.0	152.0	33.0
<82.60-83.45>	MASSIVE SULPHIDE VEIN foliated 30°:microveins 30° Strong CB patches Strong MS SHEETED Strong pervasive/foliated light green sericite with moderate wispy hematite massive diverging patchy calcite, moderate foliated at about 30 degrees. MINERALIZATION- 4% fine grained pyrite stringers at about 30 degrees.										
<83.80-84.60>	.3% chalcopyrite - disseminated MINERALIZATION- 0.3% disseminated calcopyrite.	41655	83.00-84.00	1.00	0.110	0.30	8.0	51.0	8.0	81.0	9.0
<83.80-84.60>	MASSIVE SULPHIDE VEIN										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- 0.3% disseminated calcopyrite.										
88.35	102.70	Biotite Hbl Fdsp xtalline	41656	84.00-85.00	1.00	0.015	0.30	17.0	45.0	6.0	83.0	16.0
		Fine grained, redish-green, crystalline, foliated	41657	85.00-86.00	1.00	0.018	0.30	14.0	97.0	9.0	59.0	10.0
		macroveins 90°	41658	86.00-87.00	1.00	0.014	0.30	9.0	12.0	9.0	54.0	9.0
		Strong CL SHEETED	41659	87.00-88.00	1.00	0.095	0.30	13.0	6.0	6.0	77.0	4.0
		Moderate MS pervasive	41660	88.00-89.00	1.00	0.041	0.30	14.0	45.0	24.0	61.0	5.0
		Moderate KS patches	41661	89.00-90.00	1.00	0.007	0.30	8.0	82.0	45.0	48.0	4.0
		Moderate HE wispy	41662	90.00-91.00	1.00	0.010	0.30	8.0	51.0	12.0	44.0	7.0
		Moderate QC macroveins	41663	91.00-92.00	1.00	0.005	0.30	9.0	4.0	8.0	53.0	5.0
		Medium green to gray red BHFl with 3 to 4% light gray	41664	92.00-93.00	1.00	0.007	0.30	12.0	4.0	8.0	86.0	3.0
		to light green eu to subhedral Biotite phenos to 3mm.	41665	93.00-94.00	1.00	0.024	0.70	15.0	34.0	16.0	57.0	3.0
		25% often cryptic light to dark green subhedral	41666	94.00-95.00	1.00	0.007	0.30	6.0	45.0	6.0	37.0	3.0
		Hornblende laths to 1.5mm. fine grained to very fine	41667	95.00-96.00	1.00	0.009	0.30	8.0	75.0	20.0	49.0	5.0
		grained matrix. ALTERATION- strong pervsive and	41668	96.00-97.00	1.00	0.850	0.30	11.0	10.0	14.0	74.0	5.0
		sheeted chlorite, moderate to weak, patchy and wispy	41669	97.00-98.00	1.00	1.250	0.30	15.0	15.0	27.0	80.0	4.0
		hematite, moderate to strong K-spar pervasive,	41670	98.00-99.00	1.00	0.005	0.30	13.0	26.0	6.0	72.0	3.0
		moderate calcite veins to 12cm. with quartz at about	41671	99.00-100.00	1.00	0.007	0.30	9.0	65.0	6.0	61.0	3.0
		90 degrees.	41672	100.00-101.00	1.00	0.010	0.30	17.0	34.0	9.0	53.0	3.0
<88.50-88.90>		Chlorite Streaming										
		foliated 65°										
		Strong CL SHEETED										
		Strong MS pervasive										
		Strong KS pervasive										
		Strong chlorite/sericite streaming causing braided										
		dark green texture with medium yellow green sericite										
		+/- K-spar. Irregular foliation at about 65 degrees.										
<90.30-90.50>		MINERALIZATION- 4% pyrite as needles within dark gray										
		carbonate veins to 8mm., 3 per meter. Pyrite replaced										
		stib?										
<90.30-90.50>		MASSIVE SULPHIDE VEIN										
		:Vns =3/m										
		MINERALIZATION- 4% pyrite as needles within dark gray										
		carbonate veins to 8mm., 3 per meter. Pyrite replaced										
		stib?										
<91.10-92.40>		foliated 50°										
		Weak SI patches										
		Strong KS pervasive										
		Strong HE wispy										
		Strong pervasive K-spar, moderate pervasive silica,										
		strong pervasive and wispy hematite. Broken, shattered										
		appearance, weakly foliated 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
<92.00-98.60>		Broken Core fracturing 80° Moderate broken core, fractures commonly oriented at about 80 degrees, moderate limonite fracture fill, trace fine grained gouge, or possibly drill cuttings.										
<92.40-94.60>		Chlorite Streaming Broken foliated 60° Strong CL SHEETED Moderate MS pervasive Weak HE wispy Moderate braided and sheeted chlorite streaming at about 60 degrees, often irregular within moderate broken core, weak bleaching, moderate limonite fracture fill.										
<101.60-102.70>		sheeting 80° Strong CL SHEETED Moderate HE wispy Strong pervasive chlorite with less sheeted dark gray green commonly sheeted at about 80 degrees. Moderate wispy hematite.	41673	101.00-102.00	1.00	0.062	0.30	21.0	68.0	5.0	137.0	3.0
102.70	129.30	Hornblende Feldspar xtalline Fine grained, dark green, crystalline, massive Frs=8/m :Vns =10/m Strong CL pervasive Moderate CB patches Weak MS pervasive Weak KS pervasive Trace PY disseminated Transition phase HFx1/BHF1 with rare euhedral light gray Biotite +/- Augite? phenos to 5mm., 25% light gray to dark green to cream subhedral Hornblende laths and needles to 1.5mm., very fine grained matrix. ALTERATION- string to intense chlorite pervasive, and mottling near lower contact, weak pervasive sericite, moderate K-spar? moderate calcite +/- quartz patches and irregular stockwork.	41675	102.00-104.00	2.00	0.505	0.30	16.0	73.0	13.0	64.0	4.0
			41676	104.00-105.00	1.00	0.010	0.30	6.0	45.0	2.0	31.0	3.0
			41677	105.00-106.50	1.50	0.017	0.30	8.0	72.0	2.0	28.0	3.0
			41678	106.50-108.00	1.50	0.008	0.30	12.0	55.0	27.0	48.0	3.0
			41679	108.00-109.50	1.50	0.021	0.30	8.0	65.0	25.0	92.0	12.0
			41680	109.50-111.00	1.50	0.009	0.30	8.0	64.0	28.0	164.0	25.0
			41681	111.00-112.50	1.50	0.320	1.10	9.0	789.0	17.0	196.0	34.0
			41682	112.50-114.00	1.50	0.012	0.30	8.0	94.0	19.0	99.0	23.0
			41683	114.00-115.50	1.50	0.010	0.30	12.0	80.0	18.0	94.0	39.0
			41684	115.50-117.00	1.50	0.013	0.30	7.0	67.0	10.0	81.0	8.0
			41685	117.00-118.50	1.50	0.012	0.30	8.0	66.0	9.0	71.0	9.0
			41686	118.50-120.00	1.50	0.013	0.40	13.0	141.0	10.0	141.0	30.0
			41687	120.00-121.50	1.50	0.017	0.40	25.0	97.0	32.0	119.0	14.0
			41688	121.50-123.00	1.50	0.016	0.30	31.0	64.0	44.0	93.0	5.0
			41689	123.00-124.50	1.50	0.013	0.30	32.0	58.0	43.0	79.0	8.0
			41690	124.50-126.00	1.50	0.020	0.30	28.0	75.0	30.0	65.0	9.0
<117.00-117.80>		Strong MT patches MINERALIZATION- 4% medium grained pyrite as granular patches with less disseminated.										
<117.00-117.80>		MINERALIZATION- 4% medium grained pyrite as granular patches with less disseminated.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<121.30-129.30>		Hornblende feldspar-breccia	41691	126.00-127.50	1.50	0.015	0.30	30.0	49.0	40.0	54.0	3.0
		Medium grained, dark green, mottled	41692	127.50-129.00	1.50	0.019	0.30	30.0	103.0	43.0	54.0	4.0
		Intense CL pervasive										
		Dark green strongly mottled possible intrusive breccia with 30 to 50 % anhedral phenos or subrounded or fragments to 6mm., finer grained subangular to subrounded HFxl? fragments to 3cm., about 5%. May be fraction of intense pervasive chlorite altered. Reminiscent alteration and appearance of gabbro dykes in other holes, especially downhole at fault zone.										
<127.85-127.95>		3 % galena - vein										
		5 % chalcopyrite - vein										
		MINERALIZATION- 5% calcopyrite, 3% galena as 3cm. wide vein.										
<127.85-127.95>		MASSIVE SULPHIDE VEIN										
		Quartz/calcite vein at about 60 degrees with calcopyrite and galena. MINERALIZATION- 5% calcopyrite, 3% galena as 3cm. wide vein.										
129.30	129.50	gouge										
		Tanish-green										
		Tan green medium grained gouge. Brittle fault zone.										
129.50	175.50	Hornblende Feldspar xtalline	41693	129.00-130.50	1.50	0.028	0.30	37.0	148.0	54.0	62.0	3.0
		Fine grained, greenish-gray	41694	130.50-132.00	1.50	0.021	0.30	26.0	218.0	60.0	63.0	3.0
		Frs=9/m :Vns =12/m	41695	132.00-133.50	1.50	0.020	0.30	34.0	227.0	85.0	58.0	7.0
		Moderate SI patches	41696	133.50-135.00	1.50	0.019	0.30	22.0	164.0	24.0	74.0	6.0
		Moderate CL pervasive	41697	135.00-136.00	1.00	0.021	0.30	25.0	184.0	56.0	73.0	9.0
		Moderate MS pervasive	41698	136.00-137.00	1.00	0.029	0.30	31.0	128.0	334.0	54.0	8.0
		Moderate KS pervasive	41699	137.00-138.00	1.00	0.014	0.30	18.0	51.0	139.0	45.0	3.0
		Weak PY wispy	41700	138.00-139.00	1.00	0.017	0.30	12.0	90.0	30.0	59.0	4.0
		Weak PR wispy	40701	139.00-140.00	1.00	0.026	0.30	23.0	173.0	54.0	53.0	5.0
		Weak CV microveins	40702	140.00-141.00	1.00	0.025	0.30	24.0	213.0	36.0	57.0	3.0
		Trace QC microveins	40703	141.00-142.00	1.00	0.028	0.30	37.0	293.0	39.0	77.0	5.0
		2 % pyrrhotite - wispy	40704	142.00-143.00	1.00	0.013	0.30	19.0	149.0	21.0	70.0	5.0
		Medium green gray HFxl intercalated with coarser grained crystalline units possibly BHFl. 20 to 25% commonly cryptic subhedral light gray to light green Hornblende phenos to 2mm., very fine grained to aphanitic matrix. Moderate patchy pervasive chlorite, weak to moderate pervasive sericite, increasing towards lower contact. Moderate patchy silica, generally associated with wispy SX, moderate pervasive K-spar, moderate calcite as irregular stockwork and	40705	143.00-144.00	1.00	0.009	0.30	12.0	61.0	14.0	54.0	3.0
			40706	144.00-145.00	1.00	0.015	0.30	27.0	164.0	17.0	73.0	3.0
			40707	145.00-146.00	1.00	0.036	0.40	47.0	244.0	36.0	82.0	4.0
			40708	146.00-147.00	1.00	0.026	0.30	37.0	183.0	27.0	88.0	3.0
			40709	147.00-148.00	1.00	0.022	0.30	26.0	262.0	66.0	53.0	7.0
			40710	148.00-149.00	1.00	0.028	0.30	30.0	194.0	36.0	74.0	3.0
			40711	149.00-150.00	1.00	0.030	0.50	30.0	351.0	34.0	83.0	3.0
			40712	150.00-151.00	1.00	0.005		42.0	555.0	30.0	74.0	
			40713	151.00-152.00	1.00	0.005		35.0	279.0	15.0	64.0	

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	veins. Possible weak S-zone or sulphide enrichment	40714	152.00-153.00	1.00	0.005		21.0	163.0		49.0	
	area. TRansition between chlorite and sericite ?	40715	153.00-154.00	1.00	0.005		21.0	180.0	10.0	88.0	
	alteration zone.	40716	154.00-155.50	1.50	0.005		18.0	120.0	100.0	45.0	2.0
<129.50-131.70>	Hornblende feldspar breccia Medium grained, dark green, mottled Intense CL pervasive Strongly chlorite altered, possible breccia or gabbro dyke? 4% subhedral (possible) augites to 13mm. Too altered to tell.										
<132.00-133.10>	Strong KS pervasive Moderate pinkish gray hue; likely strong pervasive K-spar.										
<133.20-135.70>	Strong MT patches Trace PR wispy 1 % pyrrhotite - wispy MINERALIZATION- 4% patchy fine grained pyrite, 1% wispy pyrrhotite.										
<133.20-135.70>	Chlorite Streaming Moderate to strong braided irregular chlorite streaming with less pervasive. MINERALIZATION- 4% patchy fine grained pyrite, 1% wispy pyrrhotite.										
<135.80-136.05>	Broken Core Weak broken core with strong bleaching and moderate limonite fracture fill.										
<136.50-139.05>	Intense MT wispy MINERALIZATION- 5% wispy pyrite, 0.3% calcopyrite, trace pyrrhotite.										
<136.50-139.05>	MASSIVE SULPHIDE VEIN Moderate SI pervasive Moderate patchy pervasive silica with wispy SX within fractures. MINERALIZATION- 5% wispy pyrite, 0.3% calcopyrite, trace pyrrhotite.										
<139.05-144.6	MINERALIZATION- 2.5% wispy pyrite.										
<140.50-141.85>	Biotite Hbl Fdsp xtalline Mottled Coarse grained HFxl or BHFl with 35% light gray subhedral lathy to rectangular Hornblende +/- Biotite phenos possible oikiocrysts? dark gray green unit.										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<144.60-144.83>	Trace MT disseminated MINERALIZATION- 10% fine grained wispy and disseminated pyrite.										
<144.60-144.83>	MASSIVE SULPHIDE VEIN MINERALIZATION- 10% fine grained wispy and disseminated pyrite.										
<144.83-146.95>	Biotite Hbl Fdsp xtalline Mottled Dark gray green BHFl or coarse grained HFxl. D.A.P. 140.5 to 141.85m.										
<146.95-147.6	Strong pervasive silica with moderate wispy pyrite.										
<147.90-148.50>	Biotite Hbl Fdsp xtalline Mottled dark gray green BHFl or coarse grained HFxl. D.A.P. 140.5 to 141.85m.										
<148.60-151.20>	Intense MT wispy Trace PR wispy .2% chalcopyrite - disseminated 1 % pyrrhotite - wispy MINERALIZATION- 5% wispy fine grained pyrite, 1.5% wispy fine grained pyrrhotite, trace disseminated calcopyrite.										
<148.60-151.2	MINERALIZATION- 5% wispy fine grained pyrite, 1.5% wispy fine grained pyrrhotite, trace disseminated calcopyrite.										
<151.60-152.50>	Biotite Hbl Fdsp xtalline Dark gray, crystalline, mottled Dark gray coarse grained HFxl or BHFl? likely HFxl with 30% ligthgray subhedral lathy phenos to 6mm. with fine grained blakc matrix. MINERALIZATION- 10% pyrite as patchy fine grained granular with less wispy and disseminated.										
<152.50-159.50>	Trace MT patches MINERALIZATION- 10% pyrite as patchy fine grained granular with less wispy and disseminated.	40717 40718	155.50-157.00 157.00-158.50	1.50 1.50	0.005 0.005	0.20	10.0 13.0	69.0 75.0	10.0 25.0	33.0 32.0	 4.0
<152.50-159.50>	Intense MT wispy MINERALIZATION- 5% fine grained wispy pyrite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<152.50-159.50>		MASSIVE SULPHIDE VEIN Moderate SI pervasive Moderate to strong patchy pervasive silica, with wispy pyrite fracture fill. MINERALIZATION- 5% fine grained wispy pyrite.										
<160.00-167.00>		Moderate MT disseminated Weak PR wispy 2 % pyrrhotite - wispy MINERALIZATION- 3% disseminated very fine grained pyrite, 2% wispy pyrrhotite, indistinct contacts.	40719	158.50-160.00	1.50	0.005		23.0	97.0	25.0	67.0	
			40720	160.00-161.50	1.50	0.005		40.0	196.0		244.0	
			40721	161.50-163.00	1.50	0.005		44.0	187.0		97.0	
			40722	163.00-164.50	1.50	0.005		37.0	135.0	5.0	86.0	
			40723	164.50-166.00	1.50	0.005		45.0	128.0		79.0	
<160.00-167.00>		gabbro Dark green, mottled Intense CL pervasive Moderate EP patches Dark green mottled highly chlorite altered intrusive rock, reminiscent of gabbro observed in other holes, local patches of subhedral lathy to rectangular light green phenos, moderate patchy epidote, frequently seen in other gabbros. MINERALIZATION- 3% disseminated very fine grained pyrite, 2% wispy pyrrhotite, indistinct contacts.										
<163.00-163.10>		gouge gouge 50° 1cm. fine grained gougy slip at about 50 degrees. No surrounding broken core.										
<166.75-167.40>		gouge 60° 3-1 1cm. gougy slips at about 60 degrees; no surrounding broken core.										
<169.61-169.90>		Strong SI pervasive Strong pervasive silica.	40724	166.00-167.50	1.50	0.005		42.0	102.0		81.0	
			40725	167.50-169.00	1.50	0.005	0.40	42.0	229.0	15.0	80.0	14.0
<172.00-175.5		Dark to light gray mottled salt and pepper textured HFxl.	40726	169.00-170.50	1.50	0.005		37.0	180.0	10.0	111.0	4.0
			40727	170.50-172.00	1.50	0.005		28.0	72.0	15.0	82.0	
175.50	193.10	Hornblende Feldspar xtalline Fine grained, gray, massive Frs=12/m :Vns =21/m Moderate SI pervasive Weak CL wispy Moderate MS pervasive Moderate KS pervasive	40728	172.00-173.50	1.50	0.005		35.0	98.0	35.0	77.0	4.0
			40729	173.50-175.00	1.50	0.005		37.0	136.0	60.0	63.0	6.0
			40730	175.00-176.50	1.50	0.005		28.0	112.0	35.0	87.0	8.0
			40731	176.50-178.00	1.50	0.005		29.0	76.0	40.0	115.0	24.0
			40732	178.00-179.50	1.50	0.005		18.0	63.0	15.0	84.0	40.0
			40733	179.50-181.00	1.50	0.010	0.40	21.0	94.0	145.0	139.0	30.0
			40734	181.00-182.50	1.50	0.005		10.0	28.0	50.0	65.0	16.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak HE disseminated	40735	182.50-184.00	1.50	0.005		13.0	57.0	15.0	74.0	26.0
		Weak QC- microveins	40736	184.00-185.50	1.50	0.005		12.0	36.0	40.0	95.0	78.0
		Medium to light green gray to medium gray HFxl with	40737	185.50-187.00	1.50	0.005	0.40	11.0	39.0	55.0	65.0	18.0
		25% light gray to cream Hornblende needles subhedral	40738	187.00-188.50	1.50	0.005		11.0	35.0	25.0	65.0	10.0
		to 1mm. very fine grained to aphanitic matrix.	40739	188.50-190.00	1.50	0.005		10.0	34.0	75.0	61.0	10.0
		ALTERATION- weak to moderate pervasive silica, weak	40740	190.00-191.50	1.50	0.005		13.0	25.0	40.0	50.0	10.0
		wispy chlorite, moderate pervasive sericite, K-spar.	40741	191.50-193.00	1.50	0.010		14.0	86.0	100.0	74.0	12.0
		Rare cream euhedral Biotite/augites phenos to 3mm.,										
		increasing towards lower contact. Graduating lower										
		contact. Silica/sericite alteration zone.										
	<185.50-185.90>	Broken Core										
		Strong rubbly broken core, 1% medium grained gouge,										
		weak limonite fracture fill, rubbly calcite fragments,										
		weak limonite fracture fill.										
	<185.90-187.25>	fracturing 5°										
		Strong rubbly broken core fractures commonly at about										
		10 degrees to core axis, moderate to weak limonite										
		fracture fill, 1% medium grained gouge.										
193.10	194.50	Biotite Hbl Fdsp xtalline	40743	193.00-194.50	1.50	0.010		11.0	50.0	55.0	74.0	14.0
		Greenish-gray, massive										
		Frs=9/m :Vns =8/m										
		Weak SI pervasive										
		Weak CL wispy										
		Moderate MS pervasive										
		Moderate KS pervasive										
		Weak QC stockwork										
		Medium green gray massive BHFl with 4% euhedral platy										
		light gray Biotite phenos +/- augites? to 3mm., 15 to										
		25% cream to light gray subhedral Hornblende needles										
		and laths to 2mm. very fine grained to aphanitic										
		matrix. ALTERATION- weak to moderate pervasive silica,										
		moderate pervasive sericite, weak to wispy and										
		fracture fill chlorite, weak calcite stockwork.										
194.50	196.30	Broken Core										
		Strong to rubbly broken core with 3% fine grained to										
		medium grained gouge, weak limonite fracture fill,										
		irregular fracture angles to core axis, moderate fault										
		zone.										
196.30	202.00	Biotite Hbl Fdsp xtalline	40744	194.50-197.00	2.50	0.005		11.0	37.0	30.0	51.0	12.0
		Fine grained, greenish-gray, massive	40745	197.00-198.50	1.50	0.005		13.0	40.0	45.0	50.0	10.0
		Weak SI pervasive	40746	198.50-200.00	1.50	0.005		12.0	18.0	35.0	70.0	14.0
		Weak CL wispy	40747	200.00-201.50	1.50	0.010		17.0	49.0	70.0	59.0	8.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate MS pervasive										
		Moderate EP pervasive										
		Weak QC stockwork										
		Medium gray green massive BHFl. D.A.P. 193.10 to 194.50m.										
202.00	217.50	gabbro	40748	201.50-203.00	1.50	0.005		33.0	99.0	30.0	62.0	4.0
		Brecciated, massive	40749	203.00-204.50	1.50	0.005		39.0	114.0	50.0	72.0	4.0
		Strong CL pervasive	40750	204.50-206.00	1.50	0.005		45.0	113.0	565.0	111.0	
		Moderate CB patches	40751	206.00-207.50	1.50	0.005		42.0	143.0	100.0	110.0	2.0
		Moderate EP patches	40752	207.50-209.00	1.50	0.005		44.0	160.0	115.0	98.0	6.0
		Moderate PY wispy	40753	209.00-210.50	1.50	0.025		39.0	194.0	40.0	89.0	12.0
		Dark green mottled autobrecciated gabbro? common	40754	210.50-212.00	1.50	0.030		45.0	333.0	45.0	101.0	12.0
		subrounded fine grained medium to dark green	40755	212.00-213.50	1.50	0.010		41.0	263.0	60.0	76.0	10.0
		fragments. Local patchy light gray unknown phenos to	40756	213.50-215.00	1.50	0.030		51.0	252.0	130.0	69.0	16.0
		4mm. up to 30%. Common epidote patches, typical of	40757	215.00-216.50	1.50	0.020		33.0	155.0	30.0	74.0	16.0
		altered gabbro, but no definate euhedral augite.										
		ALTERATION- intense pervasive chlorite, weak to										
		moderate patchy epidote, moderate irregular calcite										
		veins and patches.										
		<205.00-205.70> Broken Core										
		Moderate angular broken core, 1% fine grained gouge;										
		irregular fracture orientation.										
		<208.40-211.00> fracturing 10°										
		Strong angular broken core; 3% fine grained fracture										
		fill gouge. Fractures common at about 10 degrees.										
		<211.00-214.60> ?? MT patches										
		MINERALIZATION- 6% fine grained pyrite as wispy										
		disseminated and medium grained granular patches.										
		<211.00-214.60> MINERALIZATION- 6% fine grained pyrte as wispy										
		disseminated and medium grained granular patches.										
217.50	233.00	Hornblende Feldspar xtalline	40758	216.50-218.00	1.50	0.005		30.0	116.0	45.0	84.0	18.0
		Fine grained, dark green, foliated	40759	218.00-219.50	1.50	0.005		26.0	127.0	45.0	61.0	16.0
		stockwork 65°:sheeting 65°	40760	219.50-221.00	1.50	0.010		44.0	141.0	160.0	115.0	18.0
		Intense CL pervasive	40761	221.00-222.50	1.50	0.005		45.0	126.0	20.0	139.0	18.0
		Strong MS SHEETED	40762	222.50-224.00	1.50	0.005		46.0	118.0	15.0	144.0	20.0
		Trace PY disseminated	40763	224.00-225.50	1.50	0.035		42.0	135.0	60.0	112.0	16.0
		Trace PR disseminated	40764	225.50-227.00	1.50	0.090		43.0	132.0	220.0	130.0	32.0
		Strong CV stockwork	40765	227.00-228.50	1.50	0.005	1.80	35.0	272.0	65.0	146.0	598.0
		1 % pyrrhotite - disseminated	40766	228.50-230.00	1.50	0.005		31.0	309.0		113.0	20.0
		Dark green HFxl? rare sub to anhedral brown gray	40767	230.00-231.50	1.50	0.005		46.0	138.0	10.0	168.0	26.0
		needles to 1m., fine grained to very fine grained	40768	231.50-233.00	1.50	0.005		47.0	92.0		168.0	18.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		matrix. Strong pervasive sericite intense chlorite increasing towards lower contact. Strong to intense foliation and calcite stockwork at about 65 degrees.										
	<232.80-233.00	Coarse pinkish gray angular crystals to 1cm? K-spar megacrysts.										
233.00	243.55	tuff	40769	233.00-234.50	1.50	0.005	0.40	32.0	118.0	20.0	128.0	22.0
		Aphanitic, dark gray, foliated	40770	234.50-236.00	1.50	0.005	0.40	29.0	58.0	5.0	106.0	26.0
		Frs=7/m	40771	236.00-237.00	1.00	0.005	0.60	27.0	82.0	20.0	113.0	34.0
		Weak CL wispy	40772	237.00-238.50	1.50	0.005	0.20	24.0	78.0	20.0	111.0	32.0
		Moderate CB pervasive	40773	238.50-240.00	1.50	0.005	0.40	46.0	94.0	55.0	110.0	28.0
		Strong MS pervasive	40774	240.00-241.50	1.50	0.005	0.80	21.0	79.0	35.0	161.0	66.0
		Intensely serecitized green tan to light gray tuff? or very fine grained sediment. Highly defined, common bleached unit, occasional crystalline looking sections. ALTERATION- intense pervasive sericite, pervasive calcite and iron carbonate. Iron carbonate commonly foliated at about 60 degrees.	40775	241.50-243.55	2.05	0.005	0.40	15.0	18.0	60.0	70.0	22.0
	<239.65-240.50>	rubbly fault zone Dark gray gouge 60°										
		5 gougy slips at about 60 degrees, with up to 1cm. very fine grained gouge, strong bleaching and possible clay alteration.										
	<241.50-243.55>	gouge 10°										
		Several gougy slips at about 10 degrees to core axis, moderate to strong bleaching. Rubbly broken core and core loss at E.O.H. Potentially sizable fault.										
	<242.00-243.55>	Intense MT patches										
		MINERALIZATION- 5% patchy very fine grained pyrite.										
	<242.00-243.55>	MINERALIZATION- 5% patchy very fine grained pyrite.										
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-39

PROJECT: Clone	Date Commenced: 14/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-39	Date Completed: 15/07/96		Geotech by: DBL
LENGTH: 260.91	Core Diam: BQTK		

Collar Location

Latitude:	2002.40
Departure:	2060.05
Elevation:	1373.38

S U M M A R Y

0.00-0.38	CASING
0.38-33.30	Hornblende Feldspar xtalline
33.30-35.50	shear zone *
35.50-50.75	Hornblende Feldspar xtalline
50.75-81.50	Biotite Hbl Fdsp xtalline *
81.50-93.30	Hornblende Feldspar xtalline *
93.30-105.00	Biotite Hbl Fdsp xtalline
105.00-154.00	Hornblende Feldspar xtalline ****
154.00-163.78	Hornblende Feldspar xtalline *
163.78-165.71	sericite/pyrite foliation
165.71-193.30	Hornblende Feldspar xtalline *
193.30-194.50	rubbly fault zone
194.50-206.50	Hornblende Feldspar xtalline *
206.50-227.90	Hornblende Feldspar xtalline **
227.90-230.60	rubbly fault zone
230.60-248.50	Hornblende Feldspar xtalline *
248.50-260.91	tuff *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	250.00	62.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	0.38	CASING Casing.										
0.38	33.30	Hornblende Feldspar xtalline Fine grained, green, spherulitic, massive Frs=7/m :Vns =25/m Moderate CL pervasive Moderate KS pervasive Weak EP patches Weak HE wispy Moderate CV stockwork Medium green commonly speckled massive HFxl with up to 20% light gray sub to anhedral phenos? oikioplasts, to 25% medium to dark green subhedral Hornblende needles to 1.5mm. Rare copper coloured to dark green Biotite phenos. Possible transition stage BHFl/HFxl fine grained to very fine grained groundmass. Common mottled epidote/chlorite, rich patches, reminiscent of gabbbro alteration. ALTERATION- moderate to strong pervasive hematite, weak to moderate wispy hematite stockwork-microfracture controlled, weak patchy epidote, with calcite in irregular stockwork, moderate calcite veins as irregular stockwork hematite stockwork zone.	40776	0.38-2.00	1.62	0.005	0.30	9.0	32.0	7.0	25.0	3.0
			40777	2.00-3.50	1.50	0.016	0.30	8.0	46.0	5.0	25.0	3.0
			40778	3.50-5.00	1.50	0.012	0.40	7.0	171.0	11.0	27.0	3.0
			40779	5.00-6.50	1.50	0.009	0.30	8.0	15.0	13.0	25.0	3.0
			40780	6.50-8.00	1.50	0.005	0.30	6.0	8.0	7.0	18.0	3.0
			40781	8.00-9.50	1.50	0.010	0.30	5.0	7.0	6.0	17.0	3.0
			40782	9.50-11.00	1.50	0.012	0.30	5.0	40.0	2.0	19.0	3.0
			40783	11.00-12.50	1.50	0.009	0.30	6.0	57.0	5.0	22.0	3.0
			40784	12.50-14.00	1.50	0.013	0.30	6.0	13.0	5.0	20.0	3.0
			40785	14.00-15.50	1.50	0.007	0.30	8.0	55.0	8.0	23.0	3.0
			40786	15.50-17.00	1.50	0.010	0.30	7.0	85.0	6.0	25.0	3.0
			40787	17.00-18.50	1.50	0.006	0.50	6.0	244.0	3.0	29.0	3.0
			40788	18.50-20.00	1.50	0.005	0.50	5.0	209.0	5.0	23.0	3.0
			40789	20.00-21.50	1.50	0.004	0.30	5.0	8.0	3.0	26.0	3.0
			40790	21.50-23.00	1.50	0.007	0.30	5.0	11.0	4.0	20.0	3.0
			40791	23.00-24.50	1.50	0.005	0.30	5.0	32.0	2.0	25.0	3.0
			40792	24.50-26.00	1.50	0.003	0.30	7.0	14.0	2.0	28.0	3.0
			40793	26.00-27.50	1.50	0.007	0.30	6.0	12.0	17.0	25.0	3.0
			40794	27.50-29.00	1.50	0.013	0.30	7.0	31.0	2.0	27.0	3.0
			40795	29.00-30.50	1.50	0.005	0.30	7.0	57.0	14.0	29.0	3.0
			40796	30.50-32.00	1.50	0.011	0.30	8.0	73.0	16.0	36.0	3.0
	<0.38-5.20>	Broken Core Weak broken core, with moderate limonite fracture fill, likely due to surficial weathering.										
	<15.50-28.30>	Biotite Hbl Fdsp xtalline Fine grained Weak patchy epidote with calcite, reminiscent of texture of altered gabbro. 2 to 3% local dark green to copper coloured Biotite phenos.										
	<27.20-27.63>	Broken Core Moderate angular broken core with moderate limonite fracture fill, weak bleaching. Fractures common at low angle to core axis.										
33.30	35.50	shear zone Brecciated, broken foliated 25° Intense CL SHEETED Moderate CB patches	40797	32.00-33.50	1.50	0.010	0.30	8.0	127.0	15.0	49.0	3.0
			40798	33.50-35.00	1.50	0.014	0.30	17.0	24.0	77.0	115.0	4.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate MS patches										
		Moderate HE patches										
		Moderate PY patches										
		Intensely chloritic foliated shear zone?										
		Foliated/ductle flow brecciated at about 20 to 30										
		degrees. Patchy chlorite, carbonate, sericite and										
		pyrite altered fragments, pyrite appears overprinted.										
		Overprinted by moderate broken core and weak limonite										
		fracture fill. MINERALIZATION- 5% patchy coarse										
		grained to very coarse grained pyrite.										
	<33.30-35.50>	Intense MT patches										
		MINERALIZATION- 5% patchy coarse grained to very										
		coarse grained pyrite.										
35.50	50.75	Hornblende Feldspar xtalline	40799	35.00-36.00	1.00	0.013	0.30	25.0	31.0	109.0	157.0	33.0
		Redish-green, mottled	40800	36.00-37.00	1.00	0.027	0.30	30.0	28.0	38.0	223.0	23.0
		cleavage, foliation 45°	40801	37.00-38.00	1.00	0.020	0.30	24.0	103.0	12.0	113.0	3.0
	.	Frs=8/m :Vns =40/m	40802	38.00-39.00	1.00	0.015	0.30	17.0	195.0	4.0	51.0	3.0
		Weak SI patches	40803	39.00-40.00	1.00	0.023	0.30	32.0	34.0	2.0	58.0	3.0
		Moderate CL pervasive	40804	40.00-41.00	1.00	0.005	0.30	10.0	53.0	4.0	31.0	3.0
		Weak MS pervasive	40805	41.00-42.00	1.00	0.001	0.30	7.0	21.0	3.0	27.0	3.0
		Moderate KS pervasive	40806	42.00-43.00	1.00	0.003	0.30	7.0	13.0	3.0	27.0	3.0
		Moderate HE stockwork	40808	43.00-44.00	1.00	0.002	0.30	12.0	58.0	4.0	31.0	3.0
		Moderate CV microveins	40809	44.00-45.00	1.00	0.008	0.30	47.0	125.0	5.0	30.0	5.0
		Hematite stockwork zone. Medium green or red mottled	40810	45.00-46.00	1.00	0.003	0.30	26.0	8.0	2.0	38.0	3.0
		HFxl with 20% light gray to light green to dark green	40811	46.00-47.00	1.00	0.002	0.30	14.0	12.0	3.0	36.0	3.0
		subhedral Hornblende phenos to 1.5mm. very fine	40812	47.00-48.00	1.00	0.003	0.30	13.0	47.0	2.0	49.0	4.0
		grained matrix. Overprinted by moderate to strong	40813	48.00-49.00	1.00	0.002	0.30	10.0	77.0	2.0	61.0	3.0
		hematite, stockwork and microfracture controlled, with	40814	49.00-50.00	1.00	0.005	0.30	5.0	47.0	59.0	50.0	3.0
		less pervasive +/- moderate silica. Weak light green										
		pervasive sericite, weak to moderate calcite stockwork										
		and veins to 1cm. commonly at about 45 degrees,										
		moderate pervasive chlorite.										
	<41.00-43.85>	Weak CL patches										
		Strong HE pervasive										
		Strong pervasive hematite, weak to absent patchy										
		silica.										
	<45.00-48.30>	Weak CL patches										
		Strong HE pervasive										
		Strong pervasive hematite, weak to moderate patchy										
		silica.										
50.75	81.50	Biotite Hbl Fdsp xtalline	40815	50.00-51.00	1.00	0.006	0.30	7.0	13.0	33.0	50.0	3.0
		Greenish-red, patchy	40816	51.00-52.00	1.00	0.002	0.30	7.0	4.0	2.0	38.0	3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Frs=8/m :Vns =20/m	40817	52.00-53.00	1.00	0.002	0.30	7.0	13.0	5.0	24.0	4.0
		Trace SI patches	40818	53.00-54.00	1.00	0.005	0.30	11.0	22.0	7.0	21.0	3.0
		Moderate CL pervasive	40819	54.00-55.00	1.00	0.017	0.30	13.0	10.0	26.0	22.0	3.0
		Moderate MS pervasive	40820	55.00-56.00	1.00	0.008	0.30	12.0	91.0	2.0	23.0	3.0
		Strong HE pervasive	40821	56.00-57.00	1.00	0.002	0.30	12.0	24.0	2.0	23.0	3.0
		Weak CV stockwork	40822	57.00-58.00	1.00	0.004	0.30	11.0	206.0	2.0	24.0	3.0
		Green red BHFl with 8 to 10% euhedral Biotite hexagons	40823	58.00-59.00	1.00	0.001	0.30	11.0	99.0	15.0	25.0	3.0
		copper coloured to 5mm. 20% dark green to light green	40824	59.00-60.00	1.00	0.001	0.30	11.0	29.0	4.0	25.0	3.0
		translucent Hornblende phenos to 1.5mm. very fine	40825	60.00-61.00	1.00	0.001	0.30	10.0	15.0	3.0	25.0	3.0
		grained matrix. ALTERATION- moderate pervasive	40826	61.00-62.00	1.00	0.001	0.30	10.0	11.0	3.0	22.0	3.0
		chlorite, strong pervasive hematite with less wispy	40827	62.00-63.00	1.00	0.001	0.30	10.0	9.0	7.0	24.0	3.0
		stockwork and microfracture controlled, weak patchy	40828	63.00-64.00	1.00	0.001	0.30	8.0	7.0	16.0	32.0	3.0
		light green sericite, weak irregular calcite	40829	64.00-65.00	1.00	0.001	0.30	8.0	7.0	2.0	26.0	3.0
		stockwork. Hematite stockwork or very weak H-zone.	40830	65.00-66.00	1.00	0.001	0.30	10.0	12.0	2.0	25.0	3.0
<54.00-54.56>		Broken Core										
		Moderate angular broken core, moderate bleaching with										
		3% brown fine grained gouge.										
<63.30-63.95>		fracturing 15°										
		Moderate broken core with moderate limonite fracture										
		fill, 0.5% medium grained gouge. Fractures often at										
		about 15 degrees to core axis.										
<73.50-74.60>		MINERALIZATION- trace calcopyrite.	40831	66.00-67.00	1.00	0.015	0.30	10.0	18.0	2.0	24.0	3.0
<73.50-74.60>		Semi-massive hematite	40832	67.00-68.00	1.00	0.020	0.30	16.0	21.0	4.0	27.0	3.0
		Strong MS patches	40833	68.00-69.00	1.00	0.006	0.30	9.0	16.0	5.0	39.0	3.0
		Intense HE pervasive	40834	69.00-70.00	1.00	0.063	0.40	27.0	62.0	30.0	62.0	5.0
		Moderate brownish green sericite altered with strong	40835	70.00-71.00	1.00	0.012	0.30	21.0	10.0	8.0	57.0	3.0
		wispy hematite and 9cm. massive hematite patch at	40836	71.00-72.00	1.00	0.038	0.30	11.0	11.0	4.0	52.0	3.0
		about 74.35m. with strong magnetite, trace calcopyrite	40837	72.00-73.00	1.00	0.001	0.30	8.0	7.0	2.0	66.0	3.0
		and yellow black unknown sulphide. MINERALIZATION-	40838	73.00-74.00	1.00	0.180	0.30	10.0	9.0	14.0	58.0	3.0
		trace calcopyrite.										
<78.70-80.80>		Moderate SI patches	40839	74.00-75.00	1.00	0.005	0.30	13.0	76.0	41.0	60.0	3.0
		Moderate CL pervasive	40840	75.00-76.00	1.00	0.012	0.30	10.0	7.0	3.0	45.0	3.0
		Moderate MS pervasive	40841	76.00-77.00	1.00	0.021	0.30	25.0	16.0	6.0	64.0	3.0
		Moderate HE wispy	40842	77.00-78.00	1.00	0.006	0.30	18.0	6.0	5.0	87.0	3.0
		Moderate wispy stockwork hematite, microfracture	40843	78.00-79.00	1.00	0.007	0.30	15.0	15.0	12.0	93.0	3.0
		controlled with good solution fronts, moderate	40844	79.00-80.00	1.00	0.001	0.30	4.0	12.0	7.0	41.0	3.0
		pervasive chlorite and light green user, weak to										
		moderate patchy silica.										
81.50	93.30	Hornblende Feldspar xtalline	40845	80.00-81.00	1.00	0.005	0.50	6.0	186.0	3.0	47.0	38.0
		Fine grained, dark green, massive	40846	81.00-82.00	1.00	0.020	0.30	7.0	152.0	16.0	58.0	10.0
		contact 70°	40847	82.00-83.00	1.00	0.115	0.30	7.0	121.0	9.0	65.0	140.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate SI patches	40848	83.00-84.00	1.00	0.020	0.30	9.0	86.0	8.0	71.0	13.0
		?? CL pervasive	40849	84.00-85.00	1.00	0.005	0.30	8.0	160.0	14.0	59.0	10.0
		Moderate KS patches	40850	85.00-86.00	1.00	0.006	0.30	7.0	445.0	3.0	60.0	36.0
		Moderate HE patches	40851	86.00-87.00	1.00	0.002	0.30	7.0	72.0	2.0	60.0	27.0
		Weak QC stockwork	40852	87.00-88.00	1.00	0.021	0.30	7.0	88.0	3.0	60.0	20.0
		Dark green to red gray fine grained HFxl with 20%	40853	88.00-89.00	1.00	0.008	0.30	8.0	201.0	2.0	56.0	31.0
		light gray to dark green subhedral Hornblende needles	40854	89.00-90.00	1.00	0.015	0.30	9.0	37.0	2.0	57.0	13.0
		to 1mm. very fine grained matrix. ALTERATION- intense	40855	90.00-91.00	1.00	0.004	0.30	11.0	127.0	8.0	54.0	5.0
		dark green pervasive chlorite, local strong pervasive	40856	91.00-92.00	1.00	0.014	0.30	11.0	136.0	2.0	62.0	3.0
		hematite usually absent moderate patchy silica,	40857	92.00-93.00	1.00	0.003	0.30	13.0	93.0	8.0	106.0	41.0
		moderate patchy K-spar? weak calcite stockwork. Lower										
		contact=22cm. calcite/quartz/chlorite vein at about 70										
		degrees.										
	<83.00-88.80>	Moderate MT disseminated										
		MINERALIZATION- 3% disseminated pyrite.										
	<83.00-88.80>	Strong SI patches										
		Intense CL pervasive										
		Strong pervasive chlorite, strong patchy silica.										
		MINERALIZATION- 3% disseminated pyrite.										
	<84.10-84.75>	Broken Core										
		Strong angular broken core, weak limonite fracture										
		fill. Inconsistant fracture orientation.										
	<91.20-92.20>	Moderate SI pervasive										
		Strong SE pervasive										
		Strong pervasive hematite, moderate pervasive silica.										
	<92.35-92.70>	Chlorite Streaming										
		Broken										
		foliated 55°										
		Intense braided chlorite fluid streaming, overbraced										
		by moderate broken core with calcite leaching.										
		Foliation at about 55 degrees.										
93.30	105.00	Biotite Hbl Fdsp xtalline	40858	93.00-94.00	1.00	0.010	0.30	10.0	7.0	4.0	95.0	7.0
		Fine grained, redish-green, mottled	40859	94.00-95.00	1.00	0.006	0.30	8.0	14.0	11.0	122.0	4.0
		Frs=6/m :Vns =20/m	40860	95.00-96.00	1.00	0.001	0.30	9.0	15.0	7.0	147.0	3.0
		Weak SI patches	40861	96.00-97.00	1.00	0.007	0.30	8.0	17.0	5.0	95.0	6.0
		Moderate CL pervasive	40862	97.00-98.00	1.00	0.004	0.30	11.0	12.0	4.0	128.0	3.0
		Moderate MS pervasive	40863	98.00-99.00	1.00	0.007	0.30	12.0	71.0	8.0	99.0	6.0
		Moderate HE wispy	40864	99.00-100.00	1.00	0.004	0.40	9.0	168.0	3.0	63.0	3.0
		Moderate CV patches	40866	100.00-101.00	1.00	0.004	0.30	9.0	40.0	8.0	65.0	4.0
		Medium red green to red gray BHFl with 3 to 4%	40867	101.00-102.00	1.00	0.028	0.40	89.0	76.0	93.0	419.0	82.0
		euhedral copper coloured Biotite hexagons to 5mm. with	40868	102.00-103.00	1.00	0.125	0.30	33.0	35.0	30.0	89.0	3.0

HOLE: CL96-39

HOMESTAKE MINING COMPANY - Clone

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag
		20% commonly cryptic light green translucent to dark green Hornblende phenos to 1.5mm. with very fine grained matrix. Biotite phenos decreasing towards lower contact. ALTERATION- moderate patchy light green sericite, moderate to strong pervasive chlorite increasing towards lower contact. Moderate wispy with less pervasive and microfracture controlled hematite, with calcite in irregular patches and stockwork. Moderate irregular calcite stockwork, weak patchy silica.	40869	103.00-104.50	1.50	0.013	
		<97.30-101.30> Weak SI patches Moderate HE pervasive Moderate pervasive hematite with weak patchy silica.					
		<100.00-100.30> foliated 50° Hematic/chloritic foliation at about 50 degrees.					
105.00	154.00	Hornblende Feldspar xtalline	40870	104.50-106.00	1.50	0.029	
		Fine grained, dark green, auto brecciated, mottled	40871	106.00-107.50	1.50	0.745	
		Frs=10/m	40872	107.50-109.00	1.50	0.024	
		Trace SI patches	40873	109.00-110.50	1.50	0.023	
		Intense CL pervasive	40874	110.50-112.00	1.50	0.030	
		Weak KS pervasive	40875	112.00-113.50	1.50	0.017	
		Trace EP phenocrystal replacement	40876	113.50-115.00	1.50	0.017	
		Weak PY wispy	40877	115.00-116.50	1.50	0.020	
		Weak CV stockwork	40878	116.50-118.00	1.50	0.017	
		Dark green moderately mottled, commonly autobrecciated	40879	118.00-119.50	1.50	0.025	
		HFxl? No definate Hornblende phenos, to 35% light gray	40880	119.50-121.00	1.50	0.032	
		sub to anhedrals, lathy to platy phenos up to 3mm.	40881	121.00-122.50	1.50	0.020	
		Autobreccation of HFxl with vague differences in	40882	122.50-124.00	1.50	0.018	
		alteration intensity and grain size, local salt and	40883	124.00-125.50	1.50	0.017	
		pepper texture, possibly cross cut by intensely	40884	125.50-127.00	1.50	0.028	
		altered gabbro dykes, as ? pyrite patchy epidote	40885	127.00-128.50	1.50	0.025	
		altered of possible Augites? to 1.5cm. ALTERATION-	40886	128.50-130.00	1.50	0.024	
		intense pervasive and braided, sheeted chlorite often	40887	130.00-131.50	1.50	0.027	
		causing brecciated texture, weak to absent patchy	40888	131.50-133.00	1.50	0.025	
		silica, K-spar weak irregular calcite stockwork, weak	40889	133.00-134.50	1.50	0.019	
		local patchy epidote, possible phenocryst replacement,	40890	134.50-136.00	1.50	0.022	
		weak calcite stockwork. Intense chlorite altered makes	40891	136.00-137.50	1.50	0.022	
		reliable litho classification difference.	40892	137.50-139.00	1.50	0.012	
		<106.00-106.50> Moderate MT patches MINERALIZATION- 3% patchy medium grained pyrite, trace arsenopyrite, calcopyrite. **NOTE: sulphide present at transition from strong hematite to intense chlorite altered zones.					

HOLE: CL96-39 HOMESTAKE MINING COMPANY - Clone

FROM TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au g/T	Ag
<106.00-106.50>	MASSIVE SULPHIDE VEIN Moderate patchy silica with patchy disseminated sulphide. MINERALIZATION- 3% patchy medium grained pyrite, trace arsenopyrite, calcopyrite. **NOTE: sulphide present at transition fron strong hematite to intense chlorite altered zones.					
<111.35-115.21>	Broken Core Moderate broken core with irregular fracture orientation, often shallow fine grained to medium grained muddy tan to brown gouge.					
<116.00-118.45>	Hornblende Feldspar xtalline Auto brecciated Possible autobrecciation of HFxl; intense pervasive chlorite/matrix wih lesser differential alteration of fragments.					
<120.60-120.80>	Broken Core gouge 10° Gougy moderate broken core; weak 2mm. gougy slip with moderate limonite fracture fill at about 10 degrees.					
<121.30-122.60>	Weak SI patches Weak KS patches Autobrecciated HFxl with weak patchy silica +/- K-spar.					
<122.60-127.00>	Weak MT disseminated MINERALIZATION- 2 to 3% wispy fine grained disseminated pyrite.					
<122.60-127.0	MINERALIZATION- 2 to 3% wispy fine grained disseminated pyrite.					
<127.50-131.00>	volcaniclastics Auto brecciated sheeting 35° Trace SI patches Intense CL SHEETED Trace MS patches Strong autobrcciation of HFxl with intense sheeted chlorite, fine grained to medium grained salt and pepper textured; autoclstic fragments to 14cm. Uncommon patchy epidote and silica alteration of fragments. Weak chlorite foliation/sheeting at about					

HOLE: CL96-39

HOMESTAKE MINING COMPANY - Clone

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag
		35 degrees.					
<131.50-131.70>		Broken Core					
		Moderate broken core with moderate limonite fracture fill and fine grained to sandy tan green gouge. Likely small, weak slip.					
<132.90-137.15>		Weak MT disseminated					
		MINERALIZATION- 2% fine grained to medium grained wispy disseminated pyrite.					
<132.90-137.15>		volcaniclastics					
		Auto brecciated					
		Intensely chlorite altered, possible gabbro? intrusive breccia with 3% speckled light green epidote? altered augite phenos, sub to anhedral to 1.5cm. May be altered fragments coarse grained light gray lathy and platy phenos to 3mm. patchy epidote to 30%, possibly in autoclastic fragments. MINERALIZATION- 2% fine grained to medium grained wispy disseminated pyrite.					
<135.40-153.30>		calcite vein	40893	139.00-140.50	1.50	0.018	
		:Vns =1/m	40894	140.50-142.00	1.50	0.022	
		Strong CV macroveins	40895	142.00-143.50	1.50	0.023	
		Irregular white, speckled orange, highly irregular calcite veins to 25cm., generally 1 or 2cm., 1 per meter.	40896	143.50-145.00	1.50	0.026	
			40897	145.00-146.50	1.50	0.018	
			40898	146.50-148.00	1.50	0.016	
<137.15-139.50>		volcaniclastics					
		Auto brecciated					
		Autobrecciated intrusive with up to 30% subhedral light gray augites to 2.5mm., with fine grained HFxl fragments to 5cm., subrounded, about 10%.					
<140.00-148.00>		Weak MT wispy					
		MINERALIZATION- 2% fine grained wispy pyrite.					
<140.00-148.00>		MINERALIZATION- 2% fine grained wispy pyrite.					
154.00	163.78	Hornblende Feldspar xtalline	40899	148.00-149.50	1.50	0.017	
		Fine grained, greenish-gray, crystalline	40901	149.50-151.00	1.50	0.021	
		Frs=6/m :Vns =8/m	40902	151.00-152.50	1.50	0.018	
		Moderate CL wispy	40903	152.50-154.00	1.50	0.008	
		Strong MS pervasive	40904	154.00-155.50	1.50	0.014	
		Moderate KS pervasive	40905	155.50-157.00	1.50	0.012	
		Weak CV microveins	40906	157.00-158.50	1.50	0.022	
		Medium green gray to medium gray HFxl with 20%, often	40907	158.50-160.00	1.50	0.019	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		cryptic light brown to green subhedral Hornblende needles to 1.5mm. very fine grained to aphanitic matrix. ALTERATION- moderate to strong pervasive sericite, increasing towards lower contact, moderate wispy, pervasive and sheeted chlorite, decreasing to weak towards lower contact, weak calcite as stockwork and veins to 1cm.	40908	160.00-161.50	1.50	0.016	0.40	33.0	154.0	98.0	117.0	14.0
			40909	161.50-163.00	1.50	0.015	0.30	44.0	162.0	55.0	180.0	3.0
			40910	163.00-163.78	0.78	0.012	0.30	31.0	69.0	30.0	125.0	3.0
		<154.00-157.80> Moderate MT patches MINERALIZATION- 3% pyrite as medium grained granular patches with less dissemination.										
		<154.00-157.80> Chlorite Streaming Chlorite streaming, strong wispy braided chlorite sheeting at irregular orientation. MINERALIZATION- 3% pyrite as medium grained granular patches with less dissemination.										
		<162.00-163.00> sheeting 40° Strong MS SHEETED Strong sericite sheeting at about 40 degrees to core axis.										
163.78	165.71	sericite/pyrite foliation Broken Intense MS foliated Moderate PY foliated Intense sericite with strong pyritic foliation-within HFxl. Elongate autobrecciated fragments at about 35 degrees. Overprinted by weak broken core and trace very fine grained gouge.	40911	163.78-164.72	0.94	0.009	0.80	31.0	100.0	99.0	111.0	14.0
			40912	164.72-165.71	0.99	0.006	0.30	19.0	88.0	60.0	222.0	14.0
165.71	193.30	Hornblende Feldspar xtalline Fine grained, green, crystalline, auto brecciated Frs=4/m :Vns =10/m Strong CL pervasive Strong MS pervasive Weak QV microveins Moderate QC microveins Dark to medium green gray HFxl, commonly foliated or autobrecciated with 25 to 30% cream to light green translucent Hornblende phenos to 1mm. very fine grained to aphanitic matrix. ALTERATION- moderate to strong locally weak chlorite, moderate to strong sericite, local strong quartz otherwise absent, weak calcite microveins.	40913	165.71-167.00	1.29	0.014	0.30	20.0	83.0	45.0	57.0	3.0
			40914	167.00-168.50	1.50	0.016	0.30	34.0	147.0	60.0	99.0	3.0
			40915	168.50-170.00	1.50	0.018	0.30	35.0	124.0	3.0	130.0	3.0
			40916	170.00-171.50	1.50	0.012	0.30	26.0	120.0	2.0	79.0	3.0
			40917	171.50-173.00	1.50	0.015	0.30	33.0	86.0	11.0	84.0	3.0
			40918	173.00-174.50	1.50	0.031	0.30	38.0	130.0	10.0	92.0	4.0
			40919	174.50-176.00	1.50	0.012	0.30	31.0	95.0	15.0	91.0	3.0
			40920	176.00-177.50	1.50	0.011	0.30	35.0	130.0	35.0	93.0	3.0
			40921	177.50-179.00	1.50	0.006	0.30	32.0	105.0	29.0	345.0	19.0
			40922	179.00-180.50	1.50	0.029	0.30	28.0	73.0	32.0	188.0	7.0
			40923	180.50-182.00	1.50	0.007	0.30	34.0	68.0	16.0	111.0	3.0
			40924	182.00-183.50	1.50	0.019	0.30	30.0	112.0	53.0	106.0	10.0
			40925	183.50-185.00	1.50	0.017	0.30	28.0	158.0	43.0	115.0	9.0
			40926	185.00-186.50	1.50	0.020	0.80	36.0	220.0	295.0	81.0	40.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	<168.00-173.00>	volcaniclastics Auto brecciated Intense CL pervasive Weak EP phenocrystal replacement Intensely chlorite altered intrusive, possibly gabbro with anhedral, possible augite looking epidote altered phenos to 1.5cm.										
	<179.20-181.10>	tuff Foliated, crystalline Moderately foliated HFxl, very wavy and folded, strongly crystalline.										
	<185.90-189.10>	?? MT wispy MINERALIZATION- 6% wispy fine grained to very fine grained pyrite.	40927	186.50-188.00	1.50	0.016	0.30	24.0	165.0	41.0	75.0	5.0
	<185.90-189.10>	QUARTZ VEIN Strong patchy silica/quartz veins within strong pervasive chlorite altered HFxl. MINERALIZATION- 6% wispy fine grained to very fine grained pyrite.										
193.30	194.50	rubbly fault zone	40928	188.00-189.50	1.50	0.018	0.30	29.0	196.0	90.0	70.0	5.0
		Broken	40929	189.50-190.00	0.50	0.023	0.30	43.0	282.0	90.0	142.0	7.0
		gouge 25°	40930	190.00-191.50	1.50	0.013	0.30	33.0	239.0	70.0	116.0	8.0
		Intense CL pervasive	40931	191.50-193.00	1.50	0.011	0.30	18.0	134.0	11.0	59.0	4.0
		Moderate broken core with up to 1cm. gouge at about 25 degrees within strong chlorite altered HFxl.	40932	193.00-194.50	1.50	0.024	0.30	50.0	205.0	1520.0	78.0	3.0
194.50	206.50	Hornblende Feldspar xtalline	40933	194.50-196.00	1.50	0.018	0.30	25.0	147.0	55.0	58.0	3.0
		Mottled	40934	196.00-197.50	1.50	0.020	0.30	28.0	204.0	53.0	135.0	8.0
		Intense CL pervasive	40935	197.50-199.00	1.50	0.006	0.30	24.0	147.0	29.0	69.0	4.0
		Weak MS pervasive	40936	199.00-200.50	1.50	0.056	0.50	36.0	316.0	64.0	69.0	12.0
		Moderate PY disseminated	40937	200.50-202.00	1.50	0.023	0.50	29.0	179.0	21.0	116.0	6.0
		Moderate QC stockwork	40938	202.00-203.50	1.50	0.038	0.70	37.0	162.0	161.0	134.0	11.0
		Dark green intensely chlorite altered HFxl with up to 20% subhedral commonly cryptic Hornblende laths and needles to 1.5mm. intercalibrated with rare augite pheno sections, fine grained matrix. ALTERATION- strong to intense pervasive chlorite, weak to absent patchy sericite, weak to absent patchy silica, weak irregular calcite stockwork.	40939	203.50-205.00	1.50	0.075	0.30	33.0	245.0	49.0	175.0	4.0
			40940	205.00-206.50	1.50	0.061	0.30	39.0	174.0	25.0	83.0	3.0
	<203.50-206.00>	Strong MT disseminated MINERALIZATION- 4% disseminated medium grained to fine grained pyrite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<203.50-206.00>		Hornblende Feldspar xtalline Auto brecciated Intense CL pervasive Weak EP patches Intense pervasive chlorite, strong autobrecciation weak patchy epidote. MINERALIZATION- 4% disseminated medium grained to fine grained pyrite.										
<206.50-227.90>		Fine grained, green, massive, crystalline Frs=8/m :Vns =15/m Strong CL pervasive Moderate MS pervasive Moderate KS pervasive Weak CV patches Medium green massive, locally autobrecciated or sheeted HFxl with 25% cream to light green Hornblende needles to 3mm. rare euhedral cream Biotite phenos. Very fine grained matrix. ALTERATION- strong to moderate pervasive chlorite, weak to moderate pervasive light green sericite, moderate pervasive K-spar? weak to moderate calcite as irregular patches and veins.	40941	206.50-208.00	1.50	0.035	0.40	40.0	187.0	24.0	100.0	3.0
			40942	208.00-209.50	1.50	0.014	0.30	29.0	175.0	15.0	82.0	3.0
			40943	209.50-211.00	1.50	0.007	0.30	22.0	67.0	51.0	111.0	6.0
			40944	211.00-212.50	1.50	0.009	0.30	29.0	75.0	30.0	95.0	3.0
			40945	212.50-214.00	1.50	0.018	0.30	41.0	76.0	41.0	95.0	3.0
			40946	214.00-215.50	1.50	0.013	0.30	32.0	30.0	21.0	78.0	3.0
			40947	215.50-217.00	1.50	0.006	0.30	20.0	90.0	13.0	61.0	3.0
			40948	217.00-218.50	1.50	0.011	0.30	21.0	149.0	170.0	71.0	4.0
			40949	218.50-220.00	1.50	0.007	0.30	31.0	94.0	22.0	113.0	3.0
			40950	220.00-221.50	1.50	0.005	0.30	25.0	149.0	20.0	94.0	3.0
			40951	221.50-223.00	1.50	0.003	0.30	10.0	49.0	16.0	66.0	3.0
			40952	223.00-224.50	1.50	0.002	0.30	5.0	16.0	4.0	67.0	3.0
			40953	224.50-226.00	1.50	0.014	0.30	9.0	70.0	11.0	71.0	7.0
			40954	226.00-227.50	1.50	0.003	0.30	10.0	32.0	12.0	65.0	3.0
<217.50-218.11>		Strong MT stringer 1 % arsenopyrite - stringer MINERALIZATION- 4% pyrite as fine grained to very fine grained stringers, 1% arsenopyrite as 3mm wide irregular stringer, trace calcopyrite.										
<217.50-218.11>		MASSIVE SULPHIDE VEIN Strong pervasive silica, moderate pervasive sericite, weak pervasive chlorite. MINERALIZATION- 4% pyrite as fine grained to very fne grained stringers, 1% arsenopyrite as 3mm. wide irregular stringer, trace calcopyrite.										
<224.00-226.00>		Strong MT patches MINERALIZATION- 4% medium grained pyriteas irregular patches with less dissemination.										
<224.00-226.0		MINERALIZATION- 4% medium grained pyrite as irregular patches with less dissemination.										
227.90	230.60	rubbly fault zone cleavage, foliation 70° Strong angular broken core to rubble with common chloritic gouge. Fracture and calcite very fine	40955	227.50-229.00	1.50	0.006	0.30	12.0	106.0	8.0	71.0	8.0
			40956	229.00-230.50	1.50	0.009	0.30	16.0	74.0	7.0	93.0	3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		grained common at about 70 degrees within light green HFxl.										
230.60	248.50	Hornblende Feldspar xtalline	40957	230.50-232.00	1.50	0.015	0.30	35.0	154.0	11.0	90.0	6.0
		Fine grained, green, auto brecciated	40958	232.00-233.50	1.50	0.010	0.30	31.0	107.0	9.0	72.0	3.0
		cleavage, foliation 70°	40959	233.50-235.00	1.50	0.013	0.30	32.0	212.0	27.0	137.0	23.0
		Frs=8/m :Vns =25/m	40960	235.00-236.50	1.50	0.070	0.30	79.0	191.0	1074.0	85.0	8.0
		Strong CL pervasive	40961	236.50-238.00	1.50	0.031	0.30	27.0	144.0	79.0	94.0	3.0
		Moderate MS pervasive	40962	238.00-239.50	1.50	0.008	0.30	28.0	102.0	53.0	108.0	3.0
		Moderate KS pervasive	40963	239.50-241.00	1.50	0.057	1.30	59.0	135.0	699.0	105.0	12.0
		Trace PY disseminated	40964	241.00-242.50	1.50	0.056	3.30	59.0	208.0	554.0	130.0	53.0
		Strong CV microveins	40965	242.50-244.00	1.50	0.005	0.30	31.0	209.0	7.0	126.0	4.0
		Weak QC microveins	40966	244.00-245.50	1.50	0.003	0.30	28.0	135.0	10.0	112.0	7.0
		Medium green HFxl, autobrecciated with 25% light green	40967	245.50-247.00	1.50	0.008	0.30	34.0	122.0	2.0	123.0	4.0
		translucent Hornblende and very fine grained matrix.	40968	247.00-248.50	1.50	0.008	0.30	29.0	103.0	2.0	93.0	3.0
		ALTERATION- strong to moderate chlorite as pervasive										
		and irregular sheeting, weak to moderate light green										
		to beige sheeted sericite. Strong sheeting, calcite										
		stockwork/veins, average 3mm. wide, 70 per meter.										
<235.40-235.50>		?? MT fine grained										
		MINERALIZATION- 70% fine grained granular pyrite										
		within 7cm. wide vein at about 60 degrees.										
<235.40-235.50>		pyrite vein or veinlet										
		vein 60°										
		MINERALIZATION- 70% fine grained to medium grained										
		granular pyrite within 7cm. wide vein at about 60										
		degrees.										
<247.90-248.05>		rubbly fault zone										
		gouge 60°										
		Gougy, bleached carbonaceous fault zone at about 60										
		degrees.										
248.50	260.91	tuff	40969	248.50-250.00	1.50	0.005	0.90	25.0	126.0	48.0	103.0	18.0
		Aphanitic, dark gray, foliated	40970	250.00-251.50	1.50	0.008	0.80	30.0	109.0	64.0	104.0	8.0
		foliated 60°	40971	251.50-253.00	1.50	0.004	0.80	31.0	116.0	41.0	103.0	13.0
		Weak SI SHEETED	40972	253.00-254.50	1.50	0.005	0.60	19.0	53.0	58.0	99.0	3.0
		Strong CB SHEETED	40973	254.50-256.00	1.50	0.029	0.90	24.0	71.0	83.0	116.0	7.0
		Strong MS SHEETED	40974	256.00-257.50	1.50	0.030	0.90	27.0	73.0	85.0	176.0	9.0
		Weak PY disseminated	40975	257.50-259.00	1.50	0.035	0.90	14.0	68.0	318.0	141.0	13.0
		Light green gray to light to medium gray to black	40976	259.00-260.00	1.00	0.059	0.90	18.0	96.0	179.0	138.0	11.0
		foliated sediments. Highly undulated irregularly	40977	260.00-260.91	0.91	0.160	3.10	15.0	278.0	148.0	64.0	26.0
		folded, cross cut by local HFxl, foliated dykes to										
		40cm. with 25% cream, subhedral Biotites to 2mm.										
		ALTERATION- weak to moderate local sheeted silica,										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	moderate sheeted calcite and iron carbonate, strong sheeted sericite, weak sheeted chlorite. Structure moderate broken core throughout. Folaition most common at about 60 degrees.										
<254.40-255.06>	Hornblende Feldspar xtalline Fine grained, greenish-gray, foliated, crystalline Intense MS SHEETED Intensely sericite altered HFxl with 25% subhedral cream Hornblende phenos to 2mm., very fine grained matrix.										
<256.00-260.91>	Intense MT patches MINERALIZATION- 5% patchy medium grained pyrite.										
<256.00-260.9[illegible]	MINERALIZATION- 5% patchy medium grained pyrite.										
(eoh)											

11/29/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-40

PROJECT: Clone	Date Commenced: 16/07/96	Contractor: JT THOMAS	Logged by: AWK
DRILL HOLE: CL96-40	Date Completed: 17/07/96		Geotech by: MBW
LENGTH: 153.92	Core Diam: BQTK		

Collar Location

Latitude:	1939.14
Departure:	2007.27
Elevation:	1358.91

S U M M A R Y

0.00-0.04	CASING
0.04-10.00	Hornblende Feldspar xtalline
10.00-10.65	volcaniclastics
10.65-14.30	Hornblende Feldspar xtalline
14.30-18.45	volcaniclastics *
18.45-23.00	Hornblende Feldspar xtalline
23.00-39.23	Hornblende Feldspar xtalline
39.23-46.95	Hornblende Feldspar xtalline **
46.95-56.00	Hornblende Feldspar xtalline *
56.00-103.75	Hornblende Feldspar xtalline
103.75-116.60	Hornblende feldspar breccia *
116.60-117.10	FAULT ZONE
117.10-126.50	Pyroxene porphry
126.50-146.80	gabbro
146.80-154.23	gabbro

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	0.04	CASING										
		Casing.										
0.04	10.00	Hornblende Feldspar xtalline	50057	0.04-1.00	0.96	0.080	0.30	15.0	161.0	12.0	51.0	7.0
		Greenish-red, stockwork, mottled	40978	1.00-2.00	1.00	0.029	0.30	12.0	98.0	7.0	45.0	5.0
		cleavage, foliation 80°:microveins	40979	2.00-3.00	1.00	0.027	0.30	11.0	62.0	7.0	38.0	3.0
		Frs=8/m :Vns =3/m	40980	3.00-3.70	0.70	0.030	0.30	13.0	36.0	8.0	46.0	3.0
		Strong SI pervasive	40981	3.70-4.00	0.30	0.014	0.30	8.0	46.0	23.0	20.0	6.0
		Trace CB microveins	40982	4.00-5.00	1.00	0.095	0.30	33.0	399.0	33.0	57.0	5.0
		Strong KS pervasive	40983	5.00-6.00	1.00	0.041	0.30	32.0	426.0	38.0	54.0	4.0
		Strong EP stockwork	40984	6.00-7.00	1.00	0.033	0.30	36.0	91.0	49.0	51.0	3.0
		Strong HE stockwork	40985	7.00-8.00	1.00	0.041	0.30	45.0	84.0	33.0	64.0	4.0
		?? CV microveins	40986	8.00-9.00	1.00	0.048	0.30	32.0	217.0	22.0	57.0	6.0
		Strong hematite stockwork increasing in intensity	40987	9.00-9.45	0.45	0.035	0.30	27.0	35.0	19.0	81.0	3.0
		through middle of interval, decreasing by the end.	40988	9.45-10.00	0.55	0.036	0.30	30.0	46.0	32.0	99.0	6.0
		ALTERATION- strong pervasive quartz/K-spar, hematite										
		stockwork is strong, chlorite is absent at top of										
		interval, present weakly by 4m., increasing to										
		moderate by end of interval. Epidote present in										
		quartz/epidote stockwork veinlets, wispy at top of										
		hole, absent by 5m, below this rare >5mm. white										
		calcite veins at end of interval to weak, 90 and 45										
		degrees to core axis, calcite veining, pseudo										
		brecciated trace with hematite, stockwork=matrix.										
	<3.70-4.00>	Zone of intense quartz flooding and epidote veining,										
		overprinting quartz, epidote veinlets 10 to 20 degrees										
		to core axis.										
	<4.65-4.72>	Semi-massive hematite										
		Redish-green, mottled										
		contact 80°:vein 40°										
		Intense SI pervasive										
		Strong HE disseminated										
		Has sharp lower banding, diffuse upper contact,										
		calcite tension ?, quartz and calcopyrite vein 40										
		degrees to core axis, foliated lower contact.										
	<6.90-7.20>	FAULT ZONE										
		Broken										
		fracturing										
		:Vns =16/m										
		Fracture core, alteration as primary interval.										
	<9.50-10.00>	Hornblende Feldspar xtalline										
		Greenish-red, broken, fractured										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		fracturing :Vns =20/m Broken core.										
10.00	10.65	volcaniclastics Medium-coarse grained, greenish-red, foliated, fragmental foliated 40° Frs=10/m Strong CL pervasive Weak MS pervasive Trace HE wispy Moderate foliation, lithology- fragmental with either hematite or chlorite matrix, abundant to 1mm. plagcrystals, locally sheared chlorite replaced mafic phenos, biotite or pyrite. Unit has sheared upper contact, very abrupt intrusive contact, lower contact has penetrative fabric, locally unit has a hematitic matrix, elsewhere chloritic matrix. NOTE: may be portion of HFxl with penetrative fabric or andesite fragmental unit. If it is, HFxl than coarser grained than previous interval.	40989	10.00-10.60	0.60	0.039	0.30	38.0	139.0	81.0	131.0	8.0
10.65	14.30	Hornblende Feldspar xtalline Greenish-red, stockwork, mottled contact 45°:microveins 30° Frs=20/m :Vns =1/m Trace SI pervasive Strong CL pervasive Weak KS patches Trace PY stringer Fine grained, massive felspar Hornblende portioned unit, sharp intrusive upper contact, interval begins with no hematite and pyrite veinlets at 30 degrees to core axis for first 50cm. than see fracture controlled hematite, moderate stockwork forming pseudo breccia, intensity of hematite stockwork gradually decending to end of interval, most intense in the center of interval. ALTERATION- consists of pervasive strong chlorite, fracture controlled hematite with K-spar occuring in rock as flooding in the more intensely stockwork area iron carbonated, core. NOTE: entire interval is fractured, more competent intervals correspond with potassic altered portions of interval.	40990 40991 40992	10.60-10.84 10.84-12.00 12.00-13.00	0.24 1.16 1.00	0.034 0.024 0.036	0.30 0.30 0.30	33.0 27.0 36.0	177.0 120.0 74.0	67.0 11.0 12.0	102.0 72.0 70.0	20.0 3.0 3.0
14.30	18.45	volcaniclastics Fine-coarse grained, dark green, fragmental, veined vein 30°:vein 0°	40993 40994 40995	13.00-14.50 14.50-15.50 15.50-17.00	1.50 1.00 1.50	0.095 0.025 0.085	0.30 0.30 3.30	34.0 36.0 40.0	137.0 183.0 150.0	23.0 34.0 31.0	67.0 60.0 77.0	3.0 4.0 16.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Frs=4/m :Vns =4/m	40996	17.00-18.00	1.00	0.036	1.00	38.0	237.0	12.0	77.0	17.0
		Weak SI vein										
		Strong CL pervasive										
		Trace MS phenocrystal replacement										
		?? HE vein										
		Weak PY vein										
		Looks like andesitic fragmental unit, shows no penetrative fabric as in other fragmental unit above, fragments are predominantly monolithic and same as matrix,IE. plag and Hornblende (pervasive) porphyritic, matrix is composed of chloritic ash and broken plag crystals, crotic clasts are buff to white, look granitoid, rounded and have sericite in them. ALTERATION- strong pervasive chlorite, local silica flooding of matrix. NOTE: again, nothing convincing to make this a fragmental unit, still may be coarse grained HFxl with pseudo brecciated texture, 5% total sulphide=maracasite. Interval is well mineralized with pyrite stringers- silica and marcasite veins to silica and marcasite flooding, also pyrite and hematite, silica vein from 15.60 to 16.50m. 11 degrees to core axis.										
<15.25-17.00>		Moderate MT vein										
		Amorphous silica and marcasite veins and infilling, marcasite forms bladed crystals in rosettes and semi massive hematite and pyrite vein.										
18.45	30.70	Hornblende Feldspar xtalline	40997	18.00-18.50	0.50	0.043	0.30	32.0	64.0	9.0	76.0	14.0
		Dark, stockwork, mottled	40998	18.50-20.00	1.50	0.039	0.30	40.0	234.0	5.0	171.0	20.0
		Strong SI pervasive	40999	20.00-21.50	1.50	0.160	0.30	122.0	179.0	90.0	772.0	21.0
		Weak CB patches	50001	21.50-23.00	1.50	0.016	0.30	20.0	294.0	9.0	127.0	13.0
		Weak HE stockwork										
		Fine grained plag phenocrysts euhedral laths to anhedral, masses- mafic phase predominantly in green possible sub ophitic texture. ALTERATION- strong pervasive chlorite alteration, stockwork controlled hematite forming pseudo breccia at top of hole, decreasing in intensity to end of interval, sericite replacing phenos, numerous calcite veins and fracture fill, patchy disseminated pyrrhotite to 3%, predominantly below 2%										
<21.65-22.00>		Dark red, mottled										
		qz veining 30°										
		Frs=5/m :Vns =10/m										
		Strong SI pervasive										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Weak CL stringer										
	?? QV microveins										
	Zone of hematitic silicification, gradual contacts. small cross cutting quartz veinlets 60 degrees to core axis, locally containing chlorite. ALTERATION- pervasive quartz, strong to moderate disseminated hematite, fracture and patchy chlorite weak.										
<22.30-22.70>	qz veining 30°										
	Frs=3/m :Vns =4/m										
	Strong SI pervasive										
	Weak CL stringer										
	?? QV microveins										
	ALTERATION- same as previous, but with more abundant white quartz.										
<23.00-39.23>	Dark green, veined	50002	23.00-24.00	1.00	0.036	0.30	32.0	139.0	21.0	123.0	14.0
	microveins	50003	24.00-25.50	1.50	0.023	0.30	12.0	83.0	8.0	72.0	7.0
	Frs=5/m :Vns =4/m	50004	25.50-27.00	1.50	0.015	0.30	24.0	163.0	8.0	72.0	8.0
	Trace SI patches	50005	27.00-28.50	1.50	0.018	0.30	34.0	151.0	33.0	56.0	10.0
	Strong CL pervasive	50006	28.50-29.50	1.00	0.031	0.30	66.0	268.0	85.0	67.0	19.0
	Weak CB patches	50007	29.50-29.95	0.45	0.110	0.40	70.0	220.0	101.0	127.0	10.0
	?? MS pervasive	50008	29.95-31.50	1.55	0.025	0.30	61.0	262.0	91.0	125.0	22.0
	Trace HE patches	50009	31.50-33.00	1.50	0.034	0.30	26.0	167.0	29.0	56.0	5.0
	Trace PY disseminated	50010	33.00-35.00	2.00	0.024	0.30	35.0	149.0	37.0	61.0	4.0
	?? CV microveins	50011	35.00-36.50	1.50	0.043	0.30	45.0	131.0	63.0	80.0	3.0
	Recognizable plagiocrystals in chlorite matrix, lath to equant replaced by sericite, locally chlorite controlled alteration pseudo brecciated, unit is massive in unaffected portions of interval. ALTERATION- moderate chlorite, pervasive and fracture controlled with moderate sericite, replacing phenos in groundmass, calcite patchy increases to center of interval- 32 to 34m. Hematite patchy, weak occurs as minor stockwork controlled and in quartz and hematite zones. STRUCTURE- abundant cross cutting calcite veins form stockwork of microveins. NOTE: chlorite abundant at top of interval, decreases with depth sericite up to E.O.H., weak patchy quartz, very fine grained disseminated pyrite 1 to 2%, locally forms patches, incipient calcite and chlorite veins 45 degrees to core axis.	50012	36.50-38.00	1.50	2.950	0.30	45.0	39.0	55.0	85.0	3.0
<23.70-24.30>	Dark green, mottled, veined										
	qz veining 45°										
	Frs=3/m :Vns =3/m										
	Moderate SI patches										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Weak CL pervasive Trace MS pervasive Trace HE spots Weak PY stringer ?? QV microveins Zone of white to gray quartz flooding, veining with increasing pyrite mineralization and hematite, pyrite in silica zones to 3%, 1% disseminated.										
<27.40-27.55>	Aphanitic, redish-green, veined qz veining 45°:calcite 30° Frs=1/m :Vns =10/m Moderate SI patches Weak CL patches Weak MS patches Weak HE patches Weak SE vein ?? CV microveins Weakly hematitic quartz zone, at about 45 degrees to core axis cut by calcite and hematite veins, zone looks like contact qyartz vein with silica flooding contact margins.										
<29.30-29.93>	Fine grained, redish-green, mottled, foliated cleavage, foliation 40° Moderate SI patches Weak CL wispy Moderate CB pervasive Weak HE patches Weak PY stringer Zone of weak hematitic quartz and calcite to strong hematitic quartz and calcite zones and patches with moderately foliated HFxl, increase in pyrite mineralization to 5% as stringers and disseminations.										
<30.30-30.70>	Grayish-green, Brecciated cleavage, foliation 30° Moderate SI laminations Moderate MS patches Brittle fractured HFxl with foliated chlorite matrix 30 degrees to core axis. Note: brittle/ductile fault.										
<37.10-37.20>	Strong PY microveins Hematite, quartz and calcite patchy with very fine grained pyrite and hematite veinlet <5mm. 60 degrees to core axis.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	<38.50-38.70>	Hematite, calcite and quartz flooding, brecciation of HFxl and bladed calcite growth in open space rocks comb texture.										
39.23	46.95	Hornblende Feldspar xtalline	50013	38.00-39.50	1.50	1.075	1.50	59.0	75.0	74.0	71.0	3.0
		Grayish-green, mottled, stockwork	50014	39.50-41.00	1.50	0.052	0.30	38.0	27.0	50.0	68.0	3.0
		cleavage, foliation 45°	50015	41.00-42.50	1.50	0.031	0.30	38.0	84.0	40.0	70.0	11.0
		Weak CL stockwork	50016	42.50-43.50	1.00	0.030	0.50	53.0	201.0	67.0	74.0	4.0
		Trace CB patches	50017	43.50-45.00	1.50	0.180	0.30	23.0	158.0	31.0	80.0	4.0
		Moderate MS patches	50018	45.00-46.55	1.55	1.040	0.50	112.0	243.0	144.0	110.0	3.0
		Weak HE stockwork	50019	46.55-46.95	0.40	20.180	15.20	47.0	228.0	124.0	91.0	86.0
		Trace PY disseminated										
		?? CV microveins										
		Fine grained massive HFxl alteration fracture controlled hematization and chlorite, overall zone has weak to moderate chlorite stockwork alteration increasing chlorite moderate, pervasive as stockwork, hematite weak to moderate, stockwork sericite, moderate, patchy occurs as relict pseudoclasts, calcite locally present, weak in hematitic zones, pyrite very fine grained disseminated <1%, interval cut by abundant calcite microveinlets.										
	<46.55-46.95>	MINERALIZATION- lower contact sharp at about 45 degrees to core axis, wall rock adjacent strongly foliated hematite occurs as red finely disseminated and as patches of massive hematite (looks more metallic).										
	<46.55-46.95>	Semi massive hematite and disseminated magnetite, specularite and quartz veins very fine grained disseminated pyrite 1%.										
	<46.55-46.95>	Semi-massive hematite										
		Red, veined, Brecciated										
		qz veining 80°:specularite and quartz vein 80°										
		Frs=2/m :Vns =10/m										
		Strong SI pervasive										
		Weak MT disseminated										
		Strong KS pervasive										
		Strong HE pervasive										
		Trace PY disseminated										
		?? QV vein										
		MINERALIZATION- lower contact sharp at about 45 degrees to core axis, wall rock adjacent strongly foliated hematite occurs as red finely disseminated and as patches of massive hematite (looks more										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		metallic).										
46.95	56.00	Hornblende Feldspar xtalline	50020	46.95-48.50	1.55	0.029	0.30	43.0	186.0	63.0	68.0	4.0
		Fine grained, dark green, stockwork, Brecciated	50022	48.50-50.00	1.50	0.018	1.90	116.0	897.0	155.0	105.0	5.0
		pervasive 45°	50023	50.00-51.43	1.43	0.059	0.80	44.0	408.0	86.0	137.0	9.0
		Frs=5/m :Vns =2/m	50024	51.43-53.00	1.57	0.140	2.00	68.0	867.0	109.0	156.0	5.0
		Trace SI patches	50025	53.00-54.91	1.91	0.165	1.80	50.0	630.0	229.0	253.0	36.0
		Weak CL stockwork	50026	54.91-55.17	0.26	4.860	29.90	308.0	8673.0	1982.0	686.0	45.0
		Weak CB disseminated										
		Moderate MS pervasive										
		Trace HE local										
		?? PY disseminated										
		?? CV microveins										
		Unit is generally fine grained with recognizable										
		plagioclase phenos, see possible biotite, hornblende										
		and brecciated phenos. BASE ALTERATION- weak to										
		moderate chlorite alteration fracture controlled										
		forming pseudo breccia, strong sericite, pervasive,										
		weak disseminated calcite. Pyrite occurs as 1 to 2%										
		very fine grained disseminated through rock and as 1										
		to 2mm. pyrite veinlets, hematite locally developed in										
		brecciated or strongly foliated zone, corresponds with										
		increase in chlorite alteration, local weak patchy										
		quartz.										
<49.81-50.33>		FAULT ZONE										
		Fractured, broken										
		Strongly fractured core.										
<51.50-52.10>		Foliated, Brecciated										
		Weak SI patches										
		Strong CL pervasive										
		Trace MS patches										
		Strongly foliated and brecciated zone of increased										
		chlorite, hematite and calcite veinlets and clasts,										
		increased pyrite mineralization as disseminated and										
		clots 5%, patchy silification.										
<54.90-55.20>		1 % arsenopyrite - stringer										
		Zone of foliation controlled pyrite and calcopyrite										
		mineralization with intense chlorite and hematite and										
		calcite with magnetite.										
<54.90-55.20>		microveins 70°										
		Weak SI patches										
		Strong CL pervasive										
		Weak CB vein										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Trace MS patches										
		Weak MT disseminated										
		Moderate HE disseminated										
		Moderate SE stringer										
		Weak PY disseminated										
		Strongly foliated and brecciated zone of increased										
		chlorite alteration abundant stringy hematite and										
		calcite, disseminated magnetite, wispy stringers of										
		fine grained pyrite 5%, with 1 to 2% very fine grained										
		disseminated calcopyrite.										
56.00	103.75	Hornblende Feldspar xtalline	50027	55.17-57.34	2.17	0.075	0.70	39.0	268.0	61.0	154.0	9.0
		Massive, veined	50028	57.34-59.00	1.66	0.095	1.30	18.0	1148.0	45.0	130.0	9.0
		Frs=4/m :Vns =5/m	50029	59.00-60.50	1.50	0.017	0.30	12.0	213.0	24.0	106.0	3.0
		Trace SI patches	50030	60.50-62.00	1.50	0.012	0.30	12.0	82.0	22.0	99.0	5.0
		Weak CL stockwork	50031	62.00-63.57	1.57	0.025	0.30	14.0	122.0	26.0	89.0	6.0
		Trace CB patches	50032	63.57-65.00	1.43	0.014	0.30	13.0	123.0	32.0	91.0	8.0
		Moderate MS pervasive	50033	65.00-66.63	1.63	0.010	0.30	15.0	146.0	51.0	102.0	10.0
		Trace PY disseminated	50034	66.63-68.00	1.37	0.007	0.30	13.0	50.0	23.0	123.0	9.0
		?? CV microveins	50035	68.00-69.50	1.50	0.009	0.30	13.0	82.0	42.0	96.0	7.0
		Fairly uniform, massive fine grained HFxl, local and	50036	69.50-71.00	1.50	1.240	1.30	60.0	237.0	259.0	111.0	32.0
		pseudo breccia textures with chlorite fracture fill.	50037	71.00-72.50	1.50	0.047	0.40	24.0	201.0	49.0	72.0	15.0
		Interval is characterized by calcite vein and veinlets	50038	72.50-74.00	1.50	0.026	0.40	13.0	114.0	29.0	74.0	10.0
		stockwork. ALTERATION- pervasive, moderate sericite	50039	74.00-75.50	1.50	0.420	0.70	16.0	259.0	67.0	99.0	8.0
		imparting pale green colour to core, weak, locally	50040	75.50-77.00	1.50	0.026	0.40	9.0	141.0	12.0	156.0	7.0
		moderate chlorite fracture controlled patchy, weak	50041	77.00-78.50	1.50	0.680	1.20	19.0	389.0	63.0	109.0	8.0
		calcite, local patchy silification, possible K-spar,	50042	78.50-80.00	1.50	0.040	0.40	26.0	131.0	57.0	74.0	15.0
		pyrite is uniformly disseminated through core, very	50043	80.00-81.48	1.48	0.205	0.90	89.0	319.0	166.0	155.0	13.0
		fine grained, 2 to 3%, locally forms clots of very	50044	81.48-83.00	1.52	0.038	0.50	76.0	219.0	421.0	78.0	5.0
		fine grained pyrite, 1 to 2%, rare pyrite veinlets.	50045	83.00-84.00	1.00	5.880	0.60	410.0	808.0	3859.0	63.0	3.0
		NOTE: begin to see fragments at E.O.H. ie: 100.15m.	50046	84.00-85.42	1.42	0.026	0.30	32.0	230.0	48.0	58.0	7.0
<65.00-65.50>		FAULT ZONE										
		Fractured										
		Bleached and strongly fractured core.										
<66.70-67.40>		Strongly fractured core.										
<83.50-83.70>		Fine grained, white, banded										
		Moderate PY wispy										
		Banded calcite and very fine grained disseminated										
		pyrite vein, wisps of chlorite in vein, pyrite forms										
		bands of semi-massive very fine grained pyrite,										
		overall pyrite to 15%.										
<87.00-88.30>		FAULT ZONE	50047	85.42-87.00	1.58	0.053	0.30	28.0	269.0	59.0	53.0	3.0
		Fractured										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Fractured core.										
103.75	116.60	Hornblende feldspar breccia	50048	87.00-88.53	1.53	0.013	0.30	37.0	144.0	58.0	85.0	6.0
		Fine-coarse grained, dark green, fragmental	50049	88.53-90.00	1.47	0.019	0.30	39.0	231.0	67.0	77.0	3.0
		calcite 60°	50050	90.00-91.50	1.50	0.017	0.30	36.0	236.0	98.0	77.0	4.0
		Frs=3/m :Vns =9/m	50051	91.50-93.00	1.50	0.023	0.30	43.0	192.0	279.0	91.0	3.0
		Moderate CL pervasive	50052	93.00-94.51	1.51	0.014	0.30	30.0	119.0	75.0	97.0	3.0
		Trace CB patches	50053	94.51-96.00	1.49	0.025	0.40	27.0	112.0	56.0	93.0	16.0
		Trace MS pervasive	50054	96.00-97.60	1.60	0.042	0.40	27.0	124.0	155.0	63.0	7.0
		Trace PY disseminated	50055	97.60-99.00	1.40	0.043	0.30	32.0	153.0	111.0	55.0	5.0
		?? CV vein	50056	99.00-101.50	2.50	0.015	0.30	34.0	163.0	72.0	100.0	3.0
		Interval is distinguished on basis of clastic	50058	101.50-103.75	2.25	0.025	0.30	29.0	234.0	103.0	70.0	3.0
		appearance epidote replacing clasts, disseminated and	50059	103.75-105.00	1.25	0.020	0.30	26.0	126.0	47.0	109.0	3.0
		fracture fill end of interval is strongly foliated	50060	105.00-106.50	1.50	0.010	0.40	25.0	114.0	37.0	127.0	3.0
		upper contact marked by epidote. ALTERATION- strong,	50061	106.50-108.60	2.10	0.018	0.40	32.0	133.0	68.0	106.0	5.0
		pervasive chlorite, weak patchy calcite, sericite,	50062	108.60-109.00	0.40	0.059	0.90	85.0	621.0	128.0	97.0	16.0
		moderate to weak, pervasive and replacing phenos,	50063	109.00-110.55	1.55	0.018	0.30	35.0	196.0	87.0	174.0	37.0
		epidote local patchy looks to be replacing clasts? and	50064	110.55-112.00	1.45	0.006	0.30	34.0	186.0	51.0	119.0	30.0
		disseminated. MINERALIZATION- very fine grained pyrite	50065	112.00-113.50	1.50	0.005		40.0	107.0	25.0	87.0	20.0
		dissemination, minor fracture fill 2 to 3% and in	50066	113.50-115.00	1.50	0.005		46.0	121.0	35.0	108.0	18.0
		clots of very fine grained pyrite. Interval continues	50067	115.00-116.58	1.58	0.025		54.0	172.0	105.0	108.0	24.0
		to have calcite vein stockwork as in previous										
		interval.										
	<103.90-104.10>	Very fine grained in 2 to 3mm. veinlets at about 30										
		degrees to core axis.										
	<108.60-109.00>	Trace MT disseminated										
		Zone of increasing pyrite mineralization with diffuse										
		veins of calcite bounded by black chlorite envelopes.										
		Two modes of pyrite, very fine grained disseminated										
		pyrite and more coarse grained pyrite crystals,										
		anhedral. Pyrite content increases to 10 to 15%.										
	<108.60-109.00>	vein 70°										
		Frs=2/m :Vns =4/m										
		Strong CL stringer										
		Strong CB pervasive										
		Weak PY disseminated										
		Zone of increasing pyrite mineralization with diffuse										
		veins of calcite bounded by black chlorite envelopes.										
		Two modes of pyrite, very fine grained disseminated										
		pyrite, more coarse grained pyrite crystals, anhedral.										
		Pyrite content increasing to 10 to 15%.										
116.60	117.10	FAULT ZONE	50068	116.58-117.07	0.49	0.265		30.0	123.0	215.0	90.0	26.0
		Fine grained, dark green, foliated										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		cleavage, foliation 30°:cleavage, foliation 60°										
		Frs=2/m										
		Weak SI laminations										
		Moderate CL laminations										
		Trace CB stringer										
		Moderate MS laminations										
		Trace PY stringer										
		SHEAR ZONE, sericite, chlorite defining fabric, quartz bands and moderately pyritic, pyrite very fine grained forms laminations 2%.										
117.10	126.50	Pyroxene porphry	50069	117.07-118.54	1.47	0.005		47.0	195.0	50.0	116.0	22.0
		Grayish-green, massive, veined	50070	118.54-120.00	1.46	0.005		47.0	153.0	80.0	123.0	26.0
		calcite 70°:contact 90°	50071	120.00-121.52	1.52	0.005		38.0	105.0	50.0	96.0	18.0
		Frs=5/m :Vns =7/m	50072	121.52-122.94	1.42	0.005		40.0	97.0	75.0	83.0	16.0
		Trace SI pervasive	50073	122.94-125.00	2.06	0.005		45.0	98.0	55.0	91.0	18.0
		Weak CL patches	50074	125.00-126.50	1.50	0.005		43.0	51.0	35.0	82.0	20.0
		Trace CB disseminated										
		Weak MS pervasive										
		Trace PY disseminated										
		Unit has up to 5mm. equant, chlorite replaced mafic phenos, probably pyroxene, in sericitized fine grained matrix. ALTERATION- sericite, pervasive strong replacing groundmass, chlorite replacing mafic phenos, locally chlorite developed in matrix, calcite in veins, microvein and weakly disseminated pyrite, very fine grained disseminated 1 to 2%.										
126.50	146.80	gabbro	50075	126.50-128.00	1.50	0.005		44.0	144.0	35.0	91.0	22.0
		Fine-medium grained, grayish-violet, massive, veined	50076	128.00-129.74	1.74	0.230		35.0	172.0	650.0	49.0	20.0
		calcite 30°:qz-carb veining 60°	50077	129.74-130.19	0.45	1.780	0.20	520.0	146.0	8130.0	31.0	10.0
		Frs=3/m :Vns =7/m	50078	130.19-131.50	1.31	0.465		40.0	183.0	125.0	72.0	14.0
		Trace SI pervasive	50079	131.50-133.00	1.50	0.010		49.0	77.0	85.0	99.0	16.0
		Trace CL patches	50080	133.00-134.42	1.42	0.010		48.0	110.0	35.0	96.0	20.0
		Weak CB pervasive	50082	134.42-136.00	1.58	0.705		902.0	468.0	9840.0	84.0	34.0
		Strong MS pervasive	50083	136.00-137.50	1.50	0.020		45.0	79.0	100.0	88.0	20.0
		Trace PY disseminated	50084	137.50-139.00	1.50	0.030		22.0	65.0	45.0	65.0	22.0
		?? QV vein	50085	139.00-140.50	1.50	0.020		18.0	39.0	35.0	63.0	22.0
		?? CV vein	50086	140.50-142.00	1.50	0.010		20.0	76.0	50.0	60.0	18.0
		Interval begins with coarse grained porphyritic	50087	142.00-143.47	1.47	0.175		20.0	71.0	55.0	60.0	22.0
		taxitic equant chlorite altered mafic phenos, becomes	50088	143.47-145.00	1.53	0.005		22.0	39.0	140.0	59.0	24.0
		more fine grained in center of interval, massive unit, disseminated and small clots of very fine grained pyrite in unit 1 to 2%.										
<129.75	130.20	Calcite and chlorite vein with large wall rock fragments banded in margins, host bi modal, very fine										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		grained and coarse grained pyrite in chlorite portions and adjacent to whole rock fragments, 15 to 20% pyrite.										
146.80	154.23	gabbro	50089	145.00-146.81	1.81	0.010		13.0	80.0	65.0	55.0	22.0
		Fine grained, grayish-white, foliated, veined	50090	146.81-148.00	1.19	0.010	0.40	36.0	130.0	30.0	119.0	32.0
		cleavage, foliation 20°	50091	148.00-149.50	1.50	0.005	0.40	38.0	116.0	15.0	109.0	30.0
		Trace SI laminations	50092	149.50-151.00	1.50	0.005		32.0	77.0	10.0	150.0	44.0
		Moderate CL laminations	50093	151.00-152.65	1.65	0.005	0.60	39.0	130.0	40.0	123.0	48.0
		Trace CB pervasive	50094	152.65-154.23	1.58	0.005	0.60	34.0	92.0	70.0	115.0	36.0
		Strong MS laminations										
		Trace PY disseminated										
		?? QV vein										
		?? CV microveins										
		Strongly foliated with foliation increasing towards										
		E.O.H., crenulation cleavage developed at E.O.H.										
		begins very chloritic with chlorite gradually										
		decreasing in intensity and is absent at end of hole										
		with core predominantly sericitic schist. Interval										
		likely begins as Gabbro strongly sheared may end up										
		being sediments by E.O.H.? very finely disseminated										
		pyrite 1%.										
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-41

PROJECT: Clone	Date Commenced: 17/07/96	Contractor: JT THOMAS	Logged by: AWK
DRILL HOLE: CL96-41	Date Completed: 17/07/96		Geotech by: MBW
LENGTH: 175.56	Core Diam: BQTK		

Collar Location

Latitude:	1939.11
Departure:	2008.42
Elevation:	1359.42

S U M M A R Y

0.00-0.90	CASING
0.90-17.00	Hornblende Feldspar xtalline *
17.00-23.10	Hornblende Feldspar xtalline
23.10-29.10	Hornblende Feldspar xtalline
29.10-35.73	Hornblende Feldspar xtalline *
35.73-42.90	Hornblende Feldspar xtalline *
42.90-53.30	Hornblende Feldspar xtalline **
53.30-55.25	Hornblende Feldspar xtalline **
55.25-59.60	Hornblende Feldspar xtalline
59.60-67.40	Hornblende Feldspar xtalline
67.40-74.70	Hornblende Feldspar xtalline ***
74.70-80.50	Hornblende Feldspar xtalline
80.50-88.10	Hornblende Feldspar xtalline
88.10-101.85	Biotite Hbl Fdsp xtalline **
101.85-109.20	Biotite Hbl Fdsp xtalline
109.20-128.88	volcaniclastics **
128.88-145.39	Hornblende Feldspar xtalline *
145.39-156.00	Hornblende Feldspar xtalline
156.00-162.13	volcaniclastics
162.13-166.16	Hornblende Feldspar xtalline
166.16-174.00	Hornblende Feldspar xtalline *
174.00-176.31	mudstone
176.31-184.10	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	0.90	CASING Casing.										
0.90	17.00	Hornblende Feldspar xtalline Fine grained, redish-green, stockwork calcite 45° Frs=5/m :Vns =3/m Trace SI pervasive Weak CL patches Trace CB patches Strong MS pervasive Trace KS patches Strong HE stockwork ?? QV vein ?? CV microveins Strong hematite, fracture controlled stockwork, forming pseudo breccia, host shows relict hornblende porphyry taxitic with hornblende altered to chlorite. ALTERATION- hematite strong to moderate fracture controlled, decreases in intensity to end of interval, chlorite moderate to weak replacing mafic phenos and patchy in ground mass of HFxl, sericite moderate to strong dominant altered mineral, calcite patchy from 8 to 12.7m. weak pervasive elsewhere fracture controlled microfracture, K-spar locally present weak epidote, disseminated weak. MINERALIZATION- no pyrite? (if any very rare).	50095 50096 50097 50098 50099 50100 50101 50102 50103 50104 50105	0.90-2.50 2.50-3.92 3.92-5.50 5.50-7.00 7.00-8.50 8.50-10.00 10.00-11.50 11.50-12.50 12.50-14.50 14.50-16.00 16.00-17.00	1.60 1.42 1.58 1.50 1.50 1.50 1.50 1.00 2.00 1.50 1.00	0.010 1.380 0.480 0.015 0.020 0.010 0.005 0.040 0.005 0.220 0.155		18.0 32.0 22.0 13.0 41.0 51.0 52.0 62.0 17.0 33.0 59.0	104.0 229.0 44.0 36.0 165.0 135.0 163.0 60.0 108.0 83.0 222.0	 25.0 10.0 5.0 10.0 25.0 20.0 15.0 20.0 15.0 20.0	59.0 72.0 51.0 44.0 67.0 138.0 117.0 92.0 38.0 46.0 70.0	20.0 22.0 16.0 16.0 22.0 24.0 26.0 26.0 16.0 18.0 36.0
<0.90-17.00>		MINERALIZATION- no pyrite? (if any very rare).										
<1.00-1.50>		Broken Core Broken core.										
<3.65-3.78>		FAULT ZONE Brecciated gouge 45° Fault brecciated with clay like matrix.										
<3.92-4.18>		Banded vein 60°:vein 30° Banded quartz/epidote, possible calcite veins, conjugate set.										
<12.26-12.47>		Hematite chlorite calcite vein Banded vein 15°										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Banded calcite/hematite vein minor chlorite.										
<13.72-13.80>		FAULT ZONE Broken Broken, minor gouge.										
<15.55-15.70>		Banded vein 30° Quartz/epidote veins, banded.										
<16.17-16.40>		Hornblende Feldspar xtalline Greenish-red, foliated, Brecciated cleavage, foliation 45° Strong CL foliated Strong foliation defined by increase in chlorite to strong forms, brecciated texture, no relation of clasts.										
<17.00-23.10>		Fine grained, greenish-red, stockwork calcite 60° Frs=10/m :Vns =2/m Trace SI pervasive Weak CL patches Strong MS pervasive Trace KS patches Weak HE stockwork Weak hematitic stockwork, host same as above, fracture controlled hematite same, just less intense. ALTERATION- same as above except now see pyrrhotite mineralization, as very fine grained disseminations and as microveinlets, no calcite.	50106 50107 50108 50109	17.00-18.50 18.50-20.00 20.00-21.50 21.50-23.10	1.50 1.50 1.50 1.60	0.040 0.120 0.030 0.015		60.0 82.0 64.0 48.0	294.0 348.0 211.0 116.0	25.0 525.0 10.0	97.0 68.0 69.0 76.0	30.0 36.0 32.0 28.0
<17.32-17.78>		Hematite chlorite calcite vein Banded vein 30° Vein 15cm. wide, true width, with chlorite wall rock fragments, very fine grained pyrite mineralization as bands parallel to wall margins and disseminations in hematitic rich parts of vein.										
<18.70-19.81>		FAULT ZONE Broken Strongly fractured core.										
23.10	25.80	Hornblende Feldspar xtalline Dark green, Brecciated contact 70°	50110 50111 50112	23.10-24.00 24.00-25.00 25.00-26.00	0.90 1.00 1.00	0.010 0.020 13.030	 1.80	17.0 28.0 227.0	54.0 34.0 61.0	15.0 40.0 115.0	72.0 108.0 162.0	24.0 26.0 22.0

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 =1/m	50113	26.00-27.00	1.00	0.810	0.80	131.0	160.0	70.0	96.0	20.0
		Intense SI pervasive	50114	27.00-28.00	1.00	0.045		17.0	111.0	10.0	86.0	24.0
		Trace CL wispy	50115	28.00-29.10	1.10	0.015	0.80	12.0	76.0	15.0	122.0	20.0
		Intense KS pervasive										
		Trace HE patches										
		Trace PY disseminated										
		?? CV microveins										
		Host is fine grained hornblende and plagioclase porphyry, see preserved hornblende phenos. ALTERATION- intense silification and K-spar alteration, pervasive, zone is brecciated with chlorite locally forming matrix. Hematite is observed in two intervals, otherwise interval is pale green; upper contact 70 degrees to core axis, rare calcite veins and hairline fracture fillings minor >1% pyrite.										
<25.20-25.80>		Weak HE disseminated										
		Same as above with disseminated hematite moderate to weak.										
<26.05-26.30>		Weak HE disseminated										
		Same as above, weak to moderate disseminated hematite.										
29.10	35.73	Hornblende Feldspar xtalline	50116	29.10-30.50	1.40	0.015	0.20	17.0	162.0	10.0	90.0	24.0
		Fine grained, dark green	50117	30.50-32.00	1.50	0.035		19.0	95.0	15.0	89.0	26.0
		calcite 60°:contact 65°	50118	32.00-33.50	1.50	0.075		39.0	145.0	25.0	130.0	28.0
		Trace SI pervasive	50119	33.50-34.50	1.00	0.070		17.0	27.0	20.0	87.0	30.0
		Weak CL patches	50120	34.50-35.73	1.23	0.005		15.0	39.0	30.0	67.0	26.0
		Trace CB patches										
		Moderate MS pervasive										
		Trace KS patches										
		Trace HE stringer										
		Trace PY disseminated										
		Zone of weak, locally moderate chlorite stockwork, cased by fracture controlled chlorite alteration, forms pseudo brecciated weak hematite in stringers at beginning of interval, gone by 31m., lower contact veined at 65 degrees to core axis, unit is massive, fine grained. ALTERATION- moderate pervasive sericite, chlorite weak stringers, calcite, patchy weak, K-spar patchy weak, very fine grained disseminated pyrite, minor veinlets.										
<30.45-30.60>		Weak MT medium grained										
		MINERALIZATION- 2% pyrite medium grained.										
<30.45-30.60>		Hornblende Feldspar xtalline										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Fine-medium grained, dark green, Brecciated										
		Strong SI pervasive										
		Strong KS pervasive										
		Weak HE stringer										
		Weak PY disseminated										
		?? CV microveins										
		Intense silicification and K-spar with hematite stringers, microfracturing with chlorite infilling. MINERALIZATION- 2% pyrite medium grained.										
<33.60-34.35>		Brecciated, foliated										
		cleavage, foliation 40°										
		Strong CL stringer										
		Moderate MS pervasive										
		Strong chlorite streaming caused by brecciation of HFxl moderate chlorite infilling.										
<35.73-42.90>		Dark green, stockwork, Brecciated	50121	35.73-37.00	1.27	0.035		38.0	91.0	50.0	90.0	30.0
		Frs=3/m :Vns =4/m	50123	37.00-38.50	1.50	0.005		8.0	16.0	5.0	44.0	18.0
		Trace SI disseminated	50124	38.50-40.00	1.50	0.005		9.0	34.0	10.0	39.0	16.0
		Weak CL stockwork	50125	40.00-41.85	1.85	0.040		15.0	14.0	45.0	33.0	14.0
		Moderate MS pervasive	50126	41.85-42.90	1.05	0.175		32.0	9.0	40.0	66.0	6.0
		Weak KS disseminated										
		?? CV microveins										
		Moderate to weak chlorite, fracture controlled forming pseudo breccia, pseudo clasts are light green, may have weak K-spar alteration, weak hematite in form of clots with calcite, moderate to strong sericite pervasive in relict portions of unit. MINERALIZATION- pyrite forms in small clots and weakly disseminations 1%.										
<35.73-42.90>		Trace MT disseminated										
		MINERALIZATION- pyrite forms in small clots and weakly disseminations 1%.										
<40.45-41.85>		Moderate SI pervasive										
		Trace CL wispy										
		Moderate CB patches										
		Weak MS pervasive										
		Moderate KS pervasive										
		Trace HE patches										
		Same as above nested interval.										
42.90	53.30	Hornblende Feldspar xtalline	50127	42.90-44.50	1.60	0.005		20.0	34.0	15.0	81.0	14.0
		Green, crackled, crackle brecciated, mottled	50128	44.50-46.00	1.50	0.005		8.0	64.0	5.0	82.0	34.0
		calcite 70°	50129	46.00-47.50	1.50	0.005		11.0	52.0	10.0	58.0	12.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Frs=7/m :Vns =4/m	50130	47.50-49.00	1.50	0.005		12.0	56.0	15.0	67.0	8.0
	Moderate CL pervasive	50131	49.00-50.85	1.85	0.095		52.0	135.0	55.0	102.0	8.0
	Trace CB microveins										
	Weak MS pervasive										
	?? CV microveins										
	Increase in chlorite with texture from previous interval, same lithology. ALTERATION- strong chlorite as fracture controlled; replacing mafic hornblende phenos and locally pervasive sericite moderate to weak pervasive in remnant fragments, calcite vein in tiny microfractures throughout interval, locally is orange pyrite, localized in chloritic areas, not with sericitic pseudo clasts, to 1% possible patchy K-spar and silica, local zones of increased strain 60 to 90 degrees to core axis.										
<50.85-53.30>	Greenish-red, mottled, veined	50132	50.85-52.00	1.15	9.130	1.40	154.0	221.0	180.0	147.0	32.0
	contact 70°	50133	52.00-53.30	1.30	0.770	0.40	169.0	614.0	195.0	88.0	10.0
	Frs=3/m :Vns =2/m										
	Weak SI vein										
	Moderate CL wispy										
	Weak MS pervasive										
	Weak MT patches										
	Weak KS vein										
	Weak HE wispy										
	Trace PY vein										
	Envelope to H-zone, original host, hornblende porphyry taxitic preserved by chlorite replacement of mafic in potassic and sericitic alterated groundmass, chlorite dominantly fracture controlled occuring as wispy infillings locally as clots of dark green to black chlorite local pseudo brecciated formed. Weak to moderate hematite disseminated with chlorite in zones of strong silica and K-spar flooding and locally semi-massive with magnetite. Pyrite occurs only with hematite and magnetite as very fine grained disseminated wispy and clots to 1%, quartz and calcopyrite vein at 35 degrees to core axis at 52.9m, 1cm. wide.										
<50.90-51.00>	MINERALIZATION- Two small <1cm. wide hematite/magnetite/pyrite/chlorite veinlets.										
<50.90-51.00>	sulphide-hematite vein										
	Dark red										
	vein 60°:vein 70°										
	Weak MT disseminated										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong HE massive Trace PY disseminated MINERALIZATION- Two small <1cm. wide hematite/magnetite/pyrite/chlorite veinlets.										
<51.10-51.24>		Dark red Zone of hematitic silification and K-spar, 15cm. wide, no sulphides present, wispy black chlorite on margins, cut by white quartz veinlets.										
<51.28-51.33>		MINERALIZATION- dark red hematite/magnetite/pyrite shear controlled, contains small augens of HFxl.										
<51.28-51.33>		Semi-massive hematite Fine grained, red, foliated cleavage, foliation 60°:contact 60° Weak SI interstitial Weak CL sheeting Weak CB patches Weak MT disseminated Strong HE massive MINERALIZATION- dark red hematite/magnetite/pyrite shear controlled, contains small augens of HFxl.										
53.30	55.25	Hornblende Feldspar xtalline Fine grained, greenish-red, wispy vein 70° Frs=2/m :Vns =4/m Weak SI patches Strong CL pervasive Moderate KS patches ?? HE wispy Trace PY microveins ?? CV microveins H-zone, two zones of massive hematite and sulphide mineralization seperated by veined intersection of HFxl, strongly chloritic pervasive with disseminated hematite moderate, veinlets of quartz and K-spar +/- disseminated hematite, late cross cutting calcite veinlets, characterized by disseminated and fracture controlled pyrrhtotie followed by pyrite.	50134 50135	53.30-54.00 54.00-55.25	0.70 1.25	18.180 42.300	8.20 39.20	580.0 2210.0	2013.0	710.0 5680.0	187.0 236.0	10.0 36.0
<53.30-53.55>		Trace MT disseminated MINERALIZATION- massive hematite, magnetite zone with 1% very fine grained disseminated pyrite, mottled taxitic with wispy red hematite and clots of magnetite, cross cutting calcite veinlets, same with										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	specularite hematite and to vein margins, upper contact, sharp at 65 degrees, lower diffuse, chlorite veinlet parallel to core axis, hematite silica has been brecciated converted by magnetite.										
<53.30-53.55>	massive hematite Fine grained, red, mottled, wispy contact 65° Frs=2/m :Vns =10/m Moderate SI pervasive Weak CB microveins Moderate MT patches Moderate KS pervasive Strong HE massive Trace PY disseminated ?? CV microveins MINERALIZATION- Massive hematite, magnetite zone with 1% very fine grained disseminated pyrite, mottled taxitic with wispy red hematite and clots of magnetite cross cutting calcite veinlets, same with specularite hematiteand to vein margins, upper contact, sharp at 65 degrees, lower diffuse, chlorite veinlet parallel to core axis, hematite silica has been brecciated converted by magnetite.										
<54.05-55.25>	MINERALIZATION- very fine grained pyrrhotite crystals forming clots which coalesce into massive zones with calcopyrite interstitial in silica matrix.										
<54.05-55.25>	massive sulphide and hematite Aphanitic, dark red, mottled, massive cleavage, foliation Frs=3/m :Vns =1/m Strong SI matrix Trace CB microveins Moderate MT massive Weak KS patches Moderate HE pervasive ?? QV microveins Typical H-zone on upper margin, sulphide rich below to end of interval, zone characterized by zones of massive hematite and magnetite followed by disseminated, stringer and cross cuting calcopyrite and quartz veinlets parallel to core axis. Late calcite veinlets cut hematite portions of zone, hematite on margins looks brecciated with magnetite matrix. MINERALIZATION- very fine grained pyrrhotite										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		crystals forming clots which coalesce into massive zones with calcopyrite interstitial in silica matrix.										
55.25	59.60	Hornblende Feldspar xtalline	50136	55.25-56.50	1.25	0.175		116.0	323.0	150.0	89.0	6.0
		Dark green	50137	56.50-58.00	1.50	1.250	0.60	146.0	513.0	205.0	109.0	10.0
		cleavage, foliation 45°	50138	58.00-59.60	1.60	0.085	0.40	32.0	356.0	75.0	119.0	12.0
		Weak SI vein										
		Moderate CL stockwork										
		Moderate MS patches										
		Weak MT vein										
		Weak KS vein										
		Trace HE wispy										
		Trace PY disseminated										
		Lower envelope to H-zone characterized by chlorite, moderate, fracture controlled forming pseudo breccia, sericite (possible K-spar) moderate in relict patches of HFxl, cross cutting this style of alteration is irregular, K-spar, quartz, and hematite veinlets with disseminated magnetite and pyrite contacts, are diffuse with K-spar and silica portions, forming envelopes more than part of the vein, very fine grained disseminated pyrite, locally forming clots 2% also occurs in hematite veins, locally as pyrite stringers.										
	<55.25-55.50>	Green										
		Intense CL pervasive										
		Trace MT disseminated										
		Weak HE wispy										
		Weak PY disseminated										
		Immediate contact of H-zone, massive black chorite with disseminated magnetite-2%. Minor hematite as wispy stringers and coarse grained euhedral pyrite crystals to 5mm.-5%										
	<57.50-57.68>	Semi-massive hematite										
		cleavage, foliation 35°										
		Weak SI matrix										
		Weak CL envelopes										
		Weak MT disseminated										
		Weak KS matrix										
		Weak HE stringer										
		Weak PY stringer										
		Foliated semi-massive hematite and magnetite with K-spar and quartz matrix and fine grained pyrite as stringers defining foliation, zone has chloritic margins.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
59.60	67.40	Hornblende Feldspar xtalline	50139	59.60-61.00	1.40	0.395	1.00	50.0	245.0	105.0	89.0	16.0
		Dark green, stockwork, mottled	50140	61.00-62.50	1.50	0.005		30.0	73.0	50.0	71.0	10.0
		calcite 60°	50141	62.50-64.00	1.50	0.055	0.20	34.0	135.0	245.0	73.0	10.0
		Weak CL stockwork	50142	64.00-65.50	1.50	0.020	0.40	25.0	173.0	40.0	65.0	12.0
		Strong MS pervasive	50143	65.50-67.40	1.90	0.090	0.60	54.0	170.0	75.0	79.0	12.0
		Trace HE patches										
		Trace PY stringer										
		?? CV vein										
		Asicular hornblende phenocrysts to 1 to 2mm., fine grained groundmass, rare equant crystals, possible pyroxene. ALTERATION- chlorite weak to moderate fracture controlled sericite pervasive strong rare patches of hematite, hematite mostly in calcite and hematite veinlets, also rare calcite mostly as cross cutting veins. 2% pyrite disseminated and microveined at beginning of interval, absent at end.										
		<59.75-60.30>Broken core.										
		<63.35-63.45> FAULT ZONE										
		Brecciated, gouge										
		contact 70°										
		Fault brecciation and gouge.										
		<64.00-64.30>Broken core.										
67.40	74.70	Hornblende Feldspar xtalline	50144	67.40-69.00	1.60	0.725	2.80	74.0	858.0	205.0	138.0	4.0
		Fine grained, redish-green, veined, mottled	50145	69.00-69.55	0.55	8.670	6.00	90.0	1359.0	360.0	131.0	8.0
		vein 45°	50146	69.55-71.00	1.45	0.040	1.00	101.0	605.0	155.0	85.0	8.0
		Frs=3/m :Vns =5/m	50147	71.00-72.00	1.00	1.010	5.80	640.0	2628.0	1330.0	97.0	8.0
		Moderate SI vein	50148	72.00-73.45	1.45	0.240	9.40	161.0	4202.0	500.0	154.0	4.0
		Moderate CL stockwork	50149	73.45-74.70	1.25	12.830	17.80	75.0	3331.0	105.0	175.0	64.0
		Moderate MS pervasive										
		Weak MT disseminated										
		Moderate KS vein										
		Moderate HE patches										
		Trace PY disseminated										
		Chlorite fracture controlled alteration overprinted by zones of hematitic silicification and K-spar cross cutting chlorite stockwork are hematite/K-spar/silica veins, zones of hematitic silicification and K-spar, one zone of massive hematite, 2% magnetite disseminated throughout interval associated with hematite, 1% very fine grained disseminated pyrite. NOTE: moderate hematite overall.										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<68.95-69.55>	MINERALIZATION- increased by hematite/quartz/K-spar veining seperated by massive dark chlorite, local hematite and calcite veins up to 5% disseminated magnetite.										
<68.95-69.55>	vein 45°:vein 60° Moderate SI vein Moderate CL interstitial Weak MT disseminated Moderate KS vein Strong HE pervasive MINERALIZATION- increased hematite/quartz/K-spar veining seperated by massive dark chlorite, local hematite and calcite veins, up to 5% disseminated magnetite.										
<71.20-72.60>	MINERALIZATION- patchy hematitic silicification with dark chlorite selvages and cross cutting hematite and calcite veins.										
<71.20-72.60>	MINERALIZATION- patchy hematitic silicification with dark chlorite selvages and cross cutting hematite and calcite veins.										
<73.45-74.70>	MINERALIZATION- massive to semi-massive hematite in silica and K-spar matrix local breccia textures present with hematite and quartz, patchy very fine grained pyrite in more siliceous portions to 5%, disseminated magnetite throughout 2%, late cock comb, bladed calcite vein cuts zone at 74.25m.										
<73.45-74.70>	Semi-massive hematite Massive, Brecciated contact 50° Moderate SI patches Moderate CL wispy ?? CB microveins Weak MT disseminated Moderate KS patches Strong HE pervasive Weak PY patches MINERALIZATION- massive to semi-massive hematite in silica and K-spar matrix local breccia textures present with hematite and quartz patchy very fine grained pyrite in more siliceous portions to 5%, disseminated magnetite throughout 2%, late cock comb bladed calcite vein cuts zone at 74.25m.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
74.70	80.50	Hornblende Feldspar xtalline	50150	74.70-76.00	1.30	0.020	2.60	17.0	1402.0	20.0	83.0	12.0
		Dark green, massive	50151	76.00-77.54	1.54	0.085	0.20	18.0	104.0	10.0	73.0	14.0
		Frs=6/m :Vns =2/m	50152	77.54-79.00	1.46	0.040	0.40	18.0	184.0	15.0	66.0	16.0
		Trace CL disseminated	50153	79.00-80.50	1.50	0.050	0.60	18.0	143.0	30.0	60.0	12.0
		Trace CB pervasive										
		Moderate MS pervasive										
		Weak KS pervasive										
		Weak PY disseminated										
		?? CV microveins										
		Fine grained beginning of interval clearly hornblende phenos in fine grained matrix, lower down less discernable, may be pyrite zinc mafic are more equant, massive unit. ALTERATION- weak chlorite, mostly replacing mafic, minor in matrix, weak calcite pervasive, sericite and K-spar predominant, pervasive weak K-spar? pyrrhotite 2 to 5% fine grained dissemination increases in patches and microveins. At 78.83m. quartz/hematite/calcite and chlorite vein at 80 degrees to core axis.										
	<79.50-79.80>	Weakly hematitic quartz and K-spar vein diffuse contacts.										
80.50	88.10	Hornblende Feldspar xtalline	50154	80.50-82.00	1.50	0.005	0.40	18.0	137.0	35.0	66.0	12.0
		Fine grained, dark green, massive, veined	50155	82.00-83.50	1.50	0.005		12.0	97.0	30.0	73.0	10.0
		calcite 60°	50156	83.50-85.00	1.50	0.005		13.0	89.0	25.0	64.0	12.0
		Weak SI patches	50157	85.00-86.50	1.50	0.005	0.40	16.0	143.0	35.0	68.0	12.0
		Trace CL vein										
		Trace MS pervasive										
		Moderate KS pervasive										
		Trace PY disseminated										
		?? CV vein										
		Interval same lithologyas above, weak to moderate K-spar flooding. Interval has abundant calcite veinlets forming stockwork local chlorite and calcite veins, 3% very fine grained disseminated pyrite, chlorite very weak mostly replacing mafic phenos and in chlorite and calcite veins.										
	<80.70-80.90>	Broken core.										
	<82.00-82.15>	Angular fragments of wall rock cemented by calcite hydrothermal breccia.										
	<83.00-86.00>	Strong fracturing, locally broken core.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<86.70-87.10> qz veining 80°										
		Quartz vein and silica flooding and increase in chlorite along margins of veins and in calcite/chlorite veins.										
88.10	101.85	Biotite Hbl Fdsp xtalline	50158	86.50-88.12	1.62	0.030	0.20	17.0	177.0	35.0	73.0	8.0
		Fine grained, dark green, massive	50159	88.12-89.50	1.38	0.005	0.40	11.0	175.0	30.0	56.0	10.0
		calcite 80°	50160	89.50-91.00	1.50	0.010		13.0	85.0	30.0	53.0	10.0
		Frs=5/m :Vns =10/m	50161	91.00-92.50	1.50	0.010		23.0	99.0	50.0	60.0	14.0
		Trace SI pervasive	50162	92.50-94.00	1.50	0.300	0.60	41.0	119.0	80.0	56.0	16.0
		Trace CL stringer	50163	94.00-94.70	0.70	0.080	0.60	22.0	126.0	215.0	44.0	14.0
		Moderate CB stockwork	50164	94.70-95.20	0.50	3.820	1.20	245.0	161.0	3640.0	69.0	12.0
		Strong KS pervasive	50165	95.20-96.43	1.23	0.555	0.20	19.0	130.0	65.0	51.0	14.0
		Weak PY disseminated	50166	96.43-98.00	1.57	3.900	5.20	400.0	1102.0	4235.0	108.0	42.0
		?? CV vein	50167	98.00-99.50	1.50	0.010		13.0	119.0	50.0	105.0	14.0
		Strong K-spar alteration, overall core is pale green to fresh coloured, locally potassic alteration is fractured with chlorite infilling, weak chlorite stringers, unit shows possible biotite phenocrysts and hornblende, selectively preserved by alteration, 5% very fine grained disseminated pyrite, locally as microveinlets and as small patches, strong calcite stockwork as microveinlets and vein, 60 to 90 degrees to core axis.	50168	99.50-101.00	1.50	0.115	1.20	46.0	521.0	720.0	71.0	22.0
		<94.70-95.20>MINERALIZATION- S-zone, quartz/chlorite/calcite, quartz along margins with chlorite and calcite in core, core also host 5% pyrite in clots and bands parallel to zone contacts, pyrite is very fine grained, with pyrite-1% arsenopyrite.										
		<94.70-95.20> contact 30°:contact 60°										
		MINERALIZATION- S-zone, quartz/chlorite/calcite, quartz along margins with chlorite and calcite in core, core also host 5% pyrite in clots and bands parallel to zone contacts, pyrite is very fine grained with pyrite -1% arsenopyrite.										
		<96.43-97.43>MINERALIZATION- very fine grained pyrite massive and very fine grained pyrrhotite with minor hematite in calcite matrix, very minor arsenopyrite at bottom of intersection.										
		<96.43-97.43> contact 80°:contact 30°										
		Trace HE patches										
		Moderate PY massive										
		S-zone (main), upper contact sharp at about 80 degrees										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		to core axis, lower margin sharp at 30 degrees to core axis, zone comprises semi-massive sulphide mineralization on margins in chlorite and calcite matrix, minor hematite center of zone, dark green chlorite pervasive and in stringers, with strong pervasive calcite, minor quartz in bands and massive sulphide clots with hematite. MINERALIZATION- very fine grained pyrite massive and very fine grained pyrrhotite with minor hematite in calcite matrix, very minor arsenopyrite at bottom of intersection.										
101.85	109.20	Biotite Hbl Fdsp xtalline	50169	101.00-102.50	1.50	0.265	0.80	81.0	183.0	645.0	75.0	22.0
		Dark green, massive	50170	102.50-104.00	1.50	0.130	0.60	65.0	147.0	880.0	83.0	20.0
		contact 35°	50171	104.00-105.50	1.50	0.290	0.80	126.0	165.0	1045.0	88.0	28.0
		Frs=3/m :Vns =7/m	50172	105.50-107.00	1.50	0.055	0.20	26.0	120.0	120.0	90.0	30.0
		Trace SI pervasive	50173	107.00-108.50	1.50	0.010		24.0	85.0	85.0	74.0	24.0
		Weak CL stringer										
		Moderate KS pervasive										
		Weak PY pervasive										
		?? CV microveins										
		Same as above interval, definite biotite phenos, only difference moderate instead of strong K-spar alteration, lower contact abrupt 35 degrees to core axis, chlorite alteration increases slightly forming wispy stringers which locally becomes abundant 5% very fine grained disseminated pyrite, locally up to 10% in chlorite stringers, local crackle breccia.										
109.20	128.88	volcaniclastics	50174	108.50-110.35	1.85	0.005		40.0	145.0	25.0	87.0	30.0
		Fine-coarse grained, green, fragmental, mottled	50175	110.35-111.30	0.95	2.620	5.60	260.0	704.0	3560.0	1267.0	344.0
		cleavage, foliation 45°	50176	111.30-112.30	1.00	4.610	10.00	125.0	2117.0	800.0	470.0	314.0
		Frs=5/m :Vns =10/m	50177	112.30-114.28	1.98	0.005		43.0	177.0	50.0	99.0	46.0
		Intense CL pervasive	50178	114.28-115.30	1.02	0.165		37.0	209.0	85.0	302.0	54.0
		Weak CB patches	50179	115.30-116.30	1.00	0.335	1.20	35.0	455.0	115.0	770.0	116.0
		Trace HE vein	50180	116.30-118.00	1.70	0.005		39.0	291.0	20.0	64.0	36.0
		Weak PY disseminated	50182	118.00-118.78	0.78	18.640	15.40	66.0	1007.0	720.0	1453.0	558.0
		?? CV microveins	50183	118.78-121.15	2.37	0.035		49.0	91.0	60.0	95.0	38.0
		Clear fragmental taxitic upper and lower contacts are	50184	121.15-121.50	0.35	2.060	0.60	350.0	286.0	5120.0	127.0	32.0
		diffuses, may be caused by fragmentation of more	50185	121.50-123.00	1.50	0.095		66.0	190.0	310.0	121.0	38.0
		massive BHFl on upper contact? strong to intense	50186	123.00-124.50	1.50	0.005		47.0	148.0	75.0	164.0	34.0
		chlorite alteration, alteration on upper contact,	50187	124.50-126.00	1.50	0.005		43.0	151.0	50.0	145.0	38.0
		decreases down hole to strong chlorite alteration,	50188	126.00-127.50	1.50	0.005		48.0	133.0	75.0	163.0	42.0
		pyrite very fine grained disseminated 5% calcite	50189	127.50-128.88	1.38	0.005		38.0	157.0	35.0	128.0	28.0
		stockwork.										
	<110.30-112.3	MINERALIZATION- intense chlorite alteration with pods										
		of semi-massive pyrite, very fine grained in calcite										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		matrix, pyrite is bimodal, very fine grained disseminated pyrite and more coarse grained subhedral pyrite, trace calcopyrite, overall pyrite 20%.										
		<110.30-112.30> Intense CL pervasive Weak CB patches Moderate PY patches MINERALIZATION- Intense chlorite alteration with pods of semi-massive pyrite, very fine grained in calcite matrix, pyrite is bimodal, very fine grained disseminated pyrite and more coarse grained subhedral pyrite, trace calcopyrite, overall pyrite 20%.										
		<112.30-114.30> Biotite Hbl Fdsp xtalline More massive, no distinct fragments possible intrusive?										
		<114.30-115.8MINERALIZATION- same as previous interval mineralized at 114.7m. calcite and hematite vein.										
		<114.30-115.8MINERALIZATION- Same as previous interval, mineralized at 114.7m. calcite and hematite vein.										
128.88	145.39	Hornblende Feldspar xtalline	50190	128.88-130.50	1.62	0.005		52.0	144.0	50.0	139.0	38.0
		Dark green, mottled	50191	130.50-132.00	1.50	0.060		72.0	192.0	305.0	134.0	36.0
		vein	50192	132.00-133.50	1.50	0.125		112.0	95.0	1205.0	72.0	24.0
		Frs=6/m :Vns =10/m	50193	133.50-135.00	1.50	0.010	0.20	17.0	90.0	50.0	43.0	18.0
		Weak CL stringer	50194	135.00-136.50	1.50	0.405	0.40	19.0	101.0	160.0	47.0	20.0
		Moderate CB pervasive	50195	136.50-138.00	1.50	0.020	0.40	143.0	130.0	1380.0	53.0	20.0
		Moderate MS pervasive	50196	138.00-139.37	1.37	0.065		37.0	117.0	55.0	79.0	26.0
		Weak KS patches	50197	139.37-139.57	0.20	23.660	8.40	2070.0	556.0	20600.0	85.0	38.0
		Weak PY disseminated	50198	139.57-141.00	1.43	0.410		88.0	100.0	605.0	98.0	28.0
		?? CV vein	50199	141.00-142.50	1.50	0.110		25.0	43.0	145.0	57.0	16.0
		Fine grained massive unit, moderate sericite, pervasive, moderate calcite, pervasive, stringers of chlorite, weak chlorite also replacing mafic phenos, probably hornblende, some are equant, strong calcite stockwork as veinlets and microveinlets calcite also occurs as micro fracture infill calcite veinlets are abundant throughout interval, common orientations 90, 11, 60 degrees to core axis, patchy weak K-spar, pervasive moderate sericite, pyrite very fine grained disseminated, various ffrom 1% locally up to 5%.	50200	142.50-144.00	1.50	0.050	0.60	37.0	179.0	545.0	81.0	28.0
		<139.37-139.5MINERALIZATION- wispy pods of semi-massive pyrite and arsenopyrite in white calcite matrix, shallow angle to core axis, zone marked by slight increase in chlorite										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		fine grained pyrite to 10%, very fine grained arsenopyrite 10%.										
<139.37-139.5		MINERALIZATION- wispy pods of semi-massive pyrite and arsenopyrite in white calcite matrix, shallow angle to core axis, zone marked by slight increase in chlorite, very fine grained arsenopyrite 10%.										
<143.60-145.39>		FAULT ZONE Strongly fractured core with zones of fault gouge and brecciation.										
145.39	156.00	Hornblende Feldspar xtalline Dark green, mottled vein 60°:fault/gouge 15° Frs=4/m :Vns =5/m Weak CL pervasive Weak CB pervasive Moderate MS pervasive More finer grained than previous interval, interval also distinguished on the loss of K-spar. ALTERATION- moderate pervasive sericite, weak to moderate pervasive chlorite, also occuring as stringers, calcite vein stockwork and locally moderate pervasive calcite as microfracture infill.	50201	144.00-145.50	1.50	0.020		38.0	143.0	235.0	86.0	24.0
			50202	145.50-147.00	1.50	0.050		61.0	84.0	3065.0	88.0	36.0
			50203	147.00-148.50	1.50	0.020		42.0	133.0	730.0	89.0	30.0
			50204	148.50-150.00	1.50	0.005		35.0	120.0	90.0	98.0	36.0
			50205	150.00-151.50	1.50	0.005		30.0	116.0	90.0	94.0	34.0
			50206	151.50-153.00	1.50	0.005		41.0	109.0	100.0	88.0	28.0
			50207	153.00-154.50	1.50	0.005		38.0	102.0	90.0	81.0	28.0
			50208	154.50-156.00	1.50	0.010		33.0	102.0	45.0	72.0	26.0
<149.70-150.30>		FAULT ZONE fault/gouge 15° Shallow fault palin with gouge-15 degrees to core axis.										
156.00	162.13	volcaniclastics Fine grained, green, Brecciated, mottled calcite 65° Frs=2/m :Vns =5/m Moderate CL interstitial Moderate CB microveins Weak MS pervasive Trace PY patches ?? CV vein Either ANFG or HFxl with increased chlorite alteration and local brecciated followed by definition clearly see fragments pseudo? contacts are moderately abrupt. ALTERATION- chlorite moderate in matrix around brecciated fragments sericite weak to moderate pervasive calcite, strong microfracture and vein stockwork pyrite 1 to 2% as fine grained disseminated,	50209	156.00-157.50	1.50	0.035		35.0	96.0	45.0	63.0	26.0
			50210	157.50-159.44	1.94	0.005		39.0	84.0	60.0	83.0	26.0
			50211	159.44-161.00	1.56	0.005		30.0	14.0	30.0	74.0	26.0
			50212	161.00-162.13	1.13	0.005		31.0	32.0	30.0	80.0	26.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		small pyrite veinlets 40 degrees to core axis and small clots.										
162.13	166.16	Hornblende Feldspar xtalline	50213	162.13-163.50	1.37	5.910	0.40	480.0	235.0	4150.0	70.0	30.0
		Fine grained, grayish-green, mottled, stockwork	50214	163.50-165.00	1.50	0.140	0.20	39.0	143.0	380.0	67.0	32.0
		cleavage, foliation 35°	50215	165.00-166.16	1.16	0.805	0.80	210.0	91.0	3900.0	54.0	24.0
		Moderate CL stringer										
		Moderate CB pervasive										
		Strong MS pervasive										
		Mottled taxitic cased by weak to strong fracture controlled chlorite alteration. ALTERATION- fracture controlled and pervasive chlorite moderate pervasive sericite strong, pervasive calcite and microfracture infill, 2% disseminated pyrite very fine grained, locally it forms clots of coarse grained pyrite and rare pyrite stringer veinlets, moderate calcite vein and microfracture stockwork calcite veins at 50 to 60 degrees to core axis.										
	<164.50-165.5	Abundant coarse grained while calcite veins at 60 degrees to core axis.										
166.16	174.00	Hornblende Feldspar xtalline	50216	166.16-166.35	0.19	5.950	8.00	2893.0	678.0	41700.0	101.0	50.0
		Fine grained, grayish-green, mottled, foliated	50217	166.35-167.50	1.15	1.300	0.80	62.0	75.0	695.0	59.0	22.0
		cleavage, foliation 30°:contact 60°	50219	167.50-169.00	1.50	0.110	1.00	100.0	134.0	185.0	95.0	48.0
		Frs=3/m :Vns =10/m	50220	169.00-170.50	1.50	0.115	0.80	35.0	138.0	25.0	92.0	26.0
		Moderate CL interstitial	50221	170.50-172.00	1.50	0.005	0.80	32.0	131.0	45.0	91.0	32.0
		Strong MS pervasive	50222	172.00-174.00	2.00	0.005	0.60	30.0	73.0	55.0	84.0	22.0
		Weak PY disseminated										
		?? CV vein										
		Strongly deformed margin at HFxl. LATERATION- cganges downhole from pervasive and fracture controlled chlorite alteration, moderate to strong with pervasive moderate sericite to pervasive strong sericite by end of hole, 5% disseminated fine grained pyrite, intensity of calcite microfracture and vein stockwork increases dramatically, foliation is flat lying to 40 degrees, in less foliated area see good pseudo brecciation taxitic with chlorite stockwork.										
	<166.16-166.35>	Trace MT fine grained 5 % arsenopyrite - medium grained MINERALIZATION- intense chlorite alteration and wispy pyrite, arsenopyrite mineralization 5% arsenopyrite coarse grained and fine grained, 10% fine grained pyrite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<166.16-166.31>		MINERALIZATION- Intense chlorite alteration and wispy pyrite, arsenopyrite mineralization 5% arsenopyrite, coarse grained and fine grained, 10% fine grained pyrite.										
174.00	176.31	mudstone	50223	174.00-175.00	1.00	0.035	0.80	16.0	78.0	70.0	255.0	6.0
		Fine grained, dark black, mottled, foliated	50224	175.00-176.31	1.31	0.025	0.80	16.0	78.0	110.0	182.0	
		cleavage, foliation										
		Frs=2/m :Vns =15/m										
		?? CV vein										
		Mudstone, strongly deformed, foliated with wispy fragments of intensely sericitized volcanic HFxl, foliation is crenulated, calcite stockwork persists change varies from perpendicular to patallel to core aixs, 1 to 2% disseminated pyrrhotite.										
176.31	184.10	gabbro	50225	176.31-178.00	1.69	0.055	0.60	21.0	87.0	60.0	46.0	2.0
		Fine-medium grained, greenish-red, mottled, Brecciated	50226	178.00-179.51	1.51	0.005	0.20	25.0	86.0	40.0	70.0	
		cleavage, foliation 45°	50227	179.51-181.00	1.49	0.005		24.0	86.0	20.0	54.0	
		Moderate CL pervasive	50228	181.00-183.00	2.00	0.005		34.0	99.0	30.0	62.0	
		Moderate MS pervasive	50229	183.00-184.10	1.10	0.005	0.40	18.0	68.0	190.0	60.0	4.0
		Weak KS local										
		Trace PY disseminated										
		?? QV vein										
		Interval begins strongly folaited, becomes more massive immediately. ALTERATION- patchy varying from moderate to pervasive chlorite and sercite to local K-spar patchy, local brecciated textures visible, 1% disseminated pyrite, strong calcite stockwork continues.										
<176.50-176.90>		Intense MT fine grained										
		MINERALIZATION- while bull quartz vein with wispy laminate of darker quartz, 5% very fine grained pyrite occuring as wispy laminations in vein parallel to margins.										
<176.50-176.90>		QUARTZ VEIN										
		Aphanitic, white, massive, mottled										
		contact 40°										
		MINERALIZATION- while bull quartz vein with wispy laminate of darker quartz, 5% very fine grained pyrite occuring as wispy laminations in vein parallel to margins.										
<183.00-183.30>		FAULT ZONE										
		cleavage, foliation 70°										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strongly sheared, clay like intersection.										
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-42

PROJECT: Clone	Date Commenced: 17/07/96	Contractor: JT THOMAS	Logged by: AWK
DRILL HOLE: CL96-42	Date Completed: 18/07/96		Geotech by: MBW
LENGTH: 206.18	Core Diam: BQTK		

Collar Location

Latitude:	1939.03
Departure:	2008.85
Elevation:	1359.51

SUMMARY

0.00-1.09	CASING
1.09-29.60	Hornblende Feldspar xtalline *
29.60-50.85	Hornblende Feldspar xtalline
50.85-63.50	Hornblende Feldspar xtalline
63.50-72.00	Biotite Hbl Fdsp xtalline *******
72.00-84.20	Biotite Hbl Fdsp xtalline *
84.20-89.50	FAULT ZONE
89.50-115.05	Biotite Hbl Fdsp xtalline ***
115.05-122.30	volcaniclastics
122.30-131.32	Biotite Hbl Fdsp xtalline
131.32-143.15	Biotite Hbl Fdsp xtalline
143.15-154.45	volcaniclastics
154.45-161.20	Hornblende Feldspar xtalline
161.20-200.10	volcaniclastics
200.10-202.50	mudstone
202.50-206.05	gabbro

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	1.09	CASING Moderate SI pervasive Trace CL pervasive Trace CB microveins Trace MS disseminated Moderate KS pervasive Strong HE stringer Weak SE disseminated Trace PY disseminated ?? QV vein ?? CV microveins Casing.										
1.09	29.60	Hornblende Feldspar xtalline Fine-medium grained, dark green, mottled, stockwork Frs=3/m :Vns =1/m Strong to moderate fracture controlled hematite, resulting in pseudo brecciated texture, rare biotite phenos seen from 13 to 17m. hematite stockwork to dramatically to weak over last 0.5m. ALTERATION- moderate, pervasive K-spar and quartz alteration, weak pervasive chlorite and sericite, strong stockwork controlled hematite, weak to moderate pervasive hematite, chlorite also as small wispy strinegrs and red mafic. STRUCTURE- epidote quartz veins <1cm. wide 40 to 80 degrees to core axis, conjugate section, rare chlorite +/- calcite, quartz veins 45 degrees to core axis, calcite veins, weak. 45 to 80 degrees to core axis, calcite/chlorite/hematite veins +/- disseminated magnetite at 40 degrees to core axis. MINERALIZATION- very weak pyrite, <1% very fine grained. dissemination.	50230	1.09-2.50	1.41	0.005		20.0	96.0	20.0	61.0	20.(
			50231	2.50-4.00	1.50	0.005		23.0	69.0	5.0	56.0	18.(
			50232	4.00-5.50	1.50	0.345		19.0	127.0	15.0	49.0	20.(
			50233	5.50-7.00	1.50	0.005		15.0	82.0	30.0	40.0	18.(
			50234	7.00-8.50	1.50	0.465		22.0	28.0	20.0	40.0	12.(
			50235	8.50-10.00	1.50	0.005		19.0	132.0	15.0	58.0	20.(
			50236	10.00-11.50	1.50	0.005		43.0	213.0	20.0	210.0	28.(
			50237	11.50-13.00	1.50	0.005		43.0	90.0	15.0	85.0	22.(
			50238	13.00-14.50	1.50	0.005		14.0	52.0	10.0	41.0	16.(
			50239	14.50-16.00	1.50	0.005		13.0	23.0	15.0	35.0	18.(
			50240	16.00-17.50	1.50	0.005		13.0	24.0	15.0	36.0	18.(
			50241	17.50-19.00	1.50	0.005		16.0	17.0	5.0	47.0	18.(
			50242	19.00-20.50	1.50	0.105		16.0	136.0	10.0	54.0	18.(
			50244	20.50-23.00	2.50	0.045		26.0	168.0	10.0	73.0	24.(
			50245	23.00-24.50	1.50	0.015		31.0	162.0	10.0	66.0	28.(
			50246	24.50-26.00	1.50	0.010		17.0	76.0	25.0	63.0	24.(
			50247	26.00-27.50	1.50	0.005		13.0	79.0	25.0	51.0	26.(
			50248	27.50-29.60	2.10	0.010		17.0	55.0		44.0	22.(
		<1.09-29.60> Trace MT fine grained MINERALIZATION- very weak pyrite, <1% very fine grained dissemination.										
		<3.80-5.25> Strongly fractured core, possible fault?										
		<7.31-8.25> Hematite chlorite calcite vein vein 30°:vein 15° Hematite/quartz/calcite veins +/- chlorite, shallow angle to core axis, abundant calcite filled microvein.										
		<12.70-20.50> Fine grained, redish-green, mottled 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 microveins Strong HE pervasive ?? CV microveins Moderate increase in K-spar and quartz alteration to strong.										
		<24.40-26.75>No hematite stringers.										
		<24.85-25.15>Crackle brecciation of BHFl with calcite cement, +/- weak disseminated hematite fragments are very angular.										
29.60	50.85	Hornblende Feldspar xtalline	50249	29.60-31.00	1.40	0.010		12.0	62.0	15.0	45.0	26.0
		Dark green, massive	50250	31.00-32.50	1.50	0.010		14.0	64.0	20.0	56.0	28.0
		Frs=7/m :Vns =5/m	50251	32.50-34.00	1.50	0.005		14.0	67.0		70.0	26.0
		Weak SI pervasive	50252	34.00-35.50	1.50	0.020		15.0	50.0	25.0	59.0	26.0
		Trace CL stringer	50253	35.50-37.00	1.50	0.020		24.0	157.0	35.0	95.0	30.0
		Moderate CB microveins	50254	37.00-38.50	1.50	0.005		16.0	40.0	30.0	97.0	26.0
		Weak MS pervasive	50255	38.50-40.00	1.50	0.020		29.0	30.0	40.0	78.0	24.0
		Moderate KS pervasive	50256	40.00-41.50	1.50	0.030		21.0	33.0	45.0	80.0	24.0
		?? CV microveins	50257	41.50-43.00	1.50	0.005		15.0	50.0	35.0	88.0	28.0
		Massive, to weakly mottled due to very weak fracture	50258	43.00-44.50	1.50	0.005		24.0	48.0	100.0	130.0	36.0
		controlled chlorite forming pseudo breccia, minor	50259	44.50-46.00	1.50	0.005		12.0	37.0	75.0	144.0	32.0
		rotation, bottom and top of interval show moderate	50260	46.00-47.50	1.50	0.005		9.0	48.0	55.0	103.0	24.0
		breccia textures, typical porphyritic texture with	50261	47.50-49.00	1.50	0.005		8.0	31.0	30.0	80.0	18.0
		equant chlorite altered mafic with bleached aphanitic	50262	49.00-50.85	1.85	0.005		14.0	42.0	55.0	92.0	16.0
		matrix. ALTERATION- moderate pervasive K-spar and silica, weak to locally moderate sericite pervasive, chlorite weak replacing mafic, and as small stringers calcite dominantly microfracture controlled, local veins, patchy weak dissemination rare, pyrite very fine grained minor <1%.										
		<30.00-31.10>Moderate fracturing of core.										
		<31.65-31.66> vein 45° Frs=5/m :Vns =10/m Hematite and calcite vein, 1cm. wide.										
		<41.25-41.31> vein 80°										
		<41.70-41.80>Crackle brecciation of HFxl with calcite coement matrix.										
		<47.75-47.80>Cockcomb, bladed calcite vein at 40 degrees to core axis.										
		<49.00-49.80>Moderate fracturing of core.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
50.85	63.50	Hornblende Feldspar xtalline	50263	50.85-53.00	2.15	0.005		18.0	27.0	30.0	112.0	10.0
		Fine-coarse grained, green, Brecciated, mottled	50264	53.00-54.50	1.50	0.005		15.0	47.0	20.0	96.0	16.0
		cleavage, foliation 60°	50265	54.50-56.00	1.50	0.005		12.0	67.0	10.0	87.0	14.0
		Trace SI vein	50267	56.00-57.50	1.50	0.005		11.0	96.0	15.0	87.0	10.0
		Strong CL pervasive	50268	57.50-59.00	1.50	0.050		11.0	50.0	25.0	71.0	8.0
		Trace CB patches	50269	59.00-60.50	1.50	0.020		14.0	61.0	50.0	65.0	30.0
		Moderate MS pervasive	50270	60.50-62.00	1.50	0.035		11.0	48.0	65.0	74.0	24.0
		Trace KS vein	50271	62.00-63.50	1.50	0.370	0.40	23.0	81.0	105.0	111.0	22.0
		Trace PY disseminated										
		?? CV microveins										
		Moderate to strong brecciation of upper contact is										
		sheared lower abrupt, majority of brecciation appears										
		to be of massive HFxl, locally however fragments are										
		matrix supported, looks more like ANFG as in CL96-41,										
		particularly at end of interval. ALTERATION- chlorite										
		predominantly replacing mafic phenos, forming matrix										
		of brecciation and as wispy stringers, sericite										
		pervasive in brecciated fragments, calcite weak										
		pervasive in matrix and as abundant microvein, K-spar										
		and silica as envelopes to chlorite and carbonate										
		veinlets, <1% pyrite, very fine grained dissemination,										
		locally clots of pyrite in chlorite rich matrix. NOTE:										
		from 54.5 to 58.0m. sparsely brecciated.										
<50.85-51.20>		FAULT ZONE										
		Foliated, Brecciated										
		cleavage, foliation 60°										
		Strongly foliated, with brittle breccia and gouge										
		overprint.										
<54.30-54.50>		Hematite and calcite veins look to be disaggregated.										
<56.10-56.15>		vein 45°										
		Amorphous silica and disseminated pyrite vein with										
		wallrock fragments, <1% pyrite.										
63.50	72.00	Biotite Hbl Fdsp xtalline	50272	63.50-65.00	1.50	0.005		13.0	51.0	40.0	82.0	42.0
		Dark green, massive, veined	50273	65.00-66.50	1.50	0.005		10.0	32.0	25.0	90.0	14.0
		calcite 70°	50274	66.50-67.00	0.50	0.005	0.20	14.0	36.0	15.0	156.0	96.0
		Frs=6/m :Vns =4/m	50275	67.00-68.00	1.00	0.300	0.60	25.0	182.0	40.0	226.0	94.0
		Weak CL patches	50276	68.00-68.45	0.45	5.810	5.20	77.0	1572.0	110.0	418.0	108.0
		Weak CB patches	50277	68.45-69.00	0.55	0.155		12.0	120.0	15.0	237.0	20.0
		Moderate MS pervasive	50278	69.00-70.00	1.00	0.600	0.20	15.0	171.0	15.0	214.0	22.0
		Weak KS patches	50279	70.00-71.00	1.00	1.140	0.80	15.0	121.0	35.0	371.0	60.0
		?? CV vein	50280	71.00-72.00	1.00	0.215	0.20	8.0	66.0	10.0	144.0	36.0
		Interval shows transition from chlorite, weak K-spar										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		altered to weak chlorite, moderate K-spar alteration change is gradual, lower contact with K-spar alteration is graduational also decrease in calcite microfracturing. ALTERATION- pervasive moderate sericite, patchy and stringer chlorite, weak to moderate patchy to pervasive weak K-spar, calcite decrease in microvein, weak pervasive to locally disseminated. MINERALIZATION- abundant massive very fine grained pyrite veinlets, wispy sulphide and sulphide veins with K-spar margins in unit >1% very fine grained disseminated pyrite and fracture controlled pyrite.										
<63.50-72.00>		Trace MT disseminated MINERALIZATION- abundant massive very fine grained pyrite veinlets, wispy sulphide and sulphide veins with K-spar margins in unit >1% very fine grained disseminated pyrite and fracture controlled pyrite.										
<67.32-67.50>		?? MT massive MINERALIZATION- Two wispy veins of very fine grained pyrite, massive, veins are less than 2cm. wide, gouge=calcite, slight increase in chlorite.										
<67.32-67.50>		vein 45° Intense PY wispy MINERALIZATION- Two wispy veins of very fine grained pyrite, massive veins are less than 2cm. wide, gouge=calcite, slight increase in chlorite.										
<67.80-68.90>		MINERALIZATION- wispy vein of very fine grained, massive pyrite, 2 to 3cm wide shows Jextral offset, margins of vein have diffuse silica envelope vein has calcite gouge.										
<67.80-68.90>		vein 65° Intense PY wispy MINERALIZATION- Wispy vein of very fine grained, massive pyrite 2 to 3cm. wide shows Jextral offset, margins of vein have diffuse silica envelope vein has calcite gouge.										
<68.45-68.51>		MINERALIZATION- 7cm, true width massive pyrite and pyrrhotite vein, sulphides are very fine grained, pyrrhotite extremely fine grained, calcite gouge, sulphides are laminated.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<68.45-68.51>		vein 60°										
		Intense PY laminations										
		Intense PR laminations										
		5 % pyrrhotite - laminations										
		MINERALIZATION- 7cm, true width massive pyrite and pyrrhotite vein, sulphides are very fine grained, pyrrhotite is extremely fine grained, calcite gouge, sulphides are laminated.										
<69.75-70.10>		MINERALIZATION- wispy stringers of very fine grained massive pyrite, <1cm. wide pyrite bimodal very fine grained and medium grained, gouge=calcite and dark chlorite locally along margin also chlorite and calcite vein.										
<70.44-70.68>		MINERALIZATION- >1cm. wide massive pyrite veinlet with broad 2 to 5cm. wide quartz flooded envelope, has clots of chlorite in it and faint hematitic tinge.										
<70.44-70.68>		vein 30°										
		MINERALIZATION- >1cm. wide massive pyrite veinlet with broad 2 to 5cm. wide quartz flooded envelope, has clots of chlorite in it and faint hematitic tinge.										
<70.85-71.70>		MINERALIZATION- 3 massive pyrite veinlets with broad quartz envelopes containing minor chlorite, sut by white calcite veins, pyrite is very fine grained and massive.										
<70.85-71.70>		vein 60°:calcite 80°										
		MINERALIZATION- 3 massive pyrite veinlets with broad quartz envelopes containing minor chlorite, cut by white calcite veins, pyrite is very fine grained and massive.										
72.00	84.20	Biotite Hbl Fdsp xtalline	50281	72.00-73.50	1.50	0.230	0.20	8.0	64.0		81.0	10.(
		Grayish-green, massive, veined	50283	73.50-75.00	1.50	0.015		7.0	59.0	15.0	92.0	16.(
		calcite 60°	50284	75.00-76.00	1.00	0.010		14.0	112.0	20.0	81.0	12.(
		Frs=3/m :Vns =10/m	50285	76.00-77.00	1.00	0.005		10.0	98.0	15.0	61.0	6.(
		Trace SI pervasive	50286	77.00-78.50	1.50	0.005		8.0	40.0	15.0	50.0	4.(
		Trace CL stringer	50287	78.50-80.00	1.50	0.005		10.0	53.0	10.0	42.0	
		?? CB microveins	50288	80.00-81.50	1.50	0.005		9.0	36.0	20.0	50.0	4.(
		Trace MS fracture fill	50289	81.50-83.00	1.50	0.005		9.0	30.0	20.0	56.0	14.(
		Moderate KS pervasive	50290	83.00-84.18	1.18	0.010		9.0	29.0	10.0	61.0	4.(
		Trace PY disseminated										
		?? CV microveins										
		Fine grained biotite porphyritic unit, very fine										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		grained ?										
		moderate K-spar, pervasive, sercite minor pervasive, also replacing biotite minor pervasive silica, chlorite along stringers weak calcite exclusively as microveins, rare calcite veins , >1% disseminated pyrite, very fine grained, rare pyrite veinlets, very fine grained massive pyrite.										
		<75.10-76.15>MINERALIZATION- pyrite veinlets, wispy with calcite gouge, pyrite is very fine grained, disseminated.										
		<75.10-76.15> vein 45°:vein 30° MINERALIZATION- pyrite veinlets, wispy with calcite gouge, pyrite is very fine grained, disseminated.										
		<83.35-83.45> FAULT ZONE gouge 80° Zone of brittle fault gouge and calcite veining, fault at 80 degrees to core axis.										
		<84.20-89.50> Trace SI pervasive	50291	84.18-85.00	0.82	0.060		20.0	41.0	45.0	51.0	
		Moderate CL interstitial	50292	85.00-86.37	1.37	0.180	0.80	55.0	312.0	100.0	125.0	14.0
		Moderate KS patches	50293	86.37-88.36	1.99	0.100	0.60	41.0	181.0	100.0	111.0	22.0
		Strongly fractured core with gouge zones, lithology same as above, but core strongly bleached, see cool pseudo brecciated texture on bleached surface, zone characterized by increase in fracture controlled chlorite alteration giving pseud brecciated texture, angular clasts of host still moderate K-spar alteration.	50294	88.36-89.50	1.14	0.075	0.60	43.0	183.0	105.0	119.0	32.0
		<89.00-89.50>Chlorite/calcite/hematite vein, banded, has quartz in center of vein, no visible sulphide.										
89.50	115.05	Biotite Hbl Fdsp xtalline	50295	89.50-91.00	1.50	0.230	0.40	29.0	188.0	65.0	105.0	22.0
		Grayish-green, massive, Brecciated	50296	91.00-92.00	1.00	0.045	0.80	31.0	254.0	170.0	58.0	18.0
		calcite 60°	50297	92.00-93.00	1.00	0.060	0.60	30.0	359.0	105.0	136.0	24.0
		Frs=5/m :Vns =15/m	50298	93.00-94.50	1.50	0.065	1.00	20.0	468.0	55.0	162.0	26.0
		Weak SI disseminated	50299	94.50-96.00	1.50	0.010	0.20	20.0	215.0	25.0	48.0	10.0
		Weak CL wispy	50300	96.00-97.50	1.50	0.005	0.20	21.0	226.0	20.0	52.0	10.0
		Strong CB microveins	50301	97.50-99.00	1.50	0.005		13.0	108.0		51.0	4.0
		Weak MS disseminated	50302	99.00-100.50	1.50	0.005		11.0	95.0	15.0	41.0	12.0
		Strong KS pervasive	50303	100.50-102.00	1.50	0.015	0.80	34.0	179.0	395.0	55.0	14.0
		Weak PY disseminated	50304	102.00-103.50	1.50	0.025	1.00	16.0	117.0	50.0	95.0	182.0
		?? CV microveins	50305	103.50-105.00	1.50	0.090	0.60	19.0	91.0	105.0	80.0	40.0
		Massive biotite porphyritic unit, fine grained.	50306	105.00-106.50	1.50	0.300	1.00	87.0	198.0	980.0	56.0	16.0
		ALTERATION- moderate to strong K-spar, pervasive,	50307	106.50-108.00	1.50	0.005	0.40	9.0	112.0	35.0	51.0	10.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		minor disseminated quartz, minor disseminated	50308	108.00-109.50	1.50	0.005		11.0	81.0	65.0	51...0	12.(
		sericite, commonly replacing biotite phenos, locally	50309	109.50-111.00	1.50	0.540	2.00	145.0	491.0	1440.0	99.0	12.(
		interval shows ? brecciation with chlorite alteration	50310	111.00-111.70	0.70	0.610	2.40	44.0	974.0	400.0	132.0	10.(
		in matrix, chlorite also seen as small clots and wispy	50311	111.70-112.02	0.32	2.380	14.40	132.0	4802.0	1465.0	348.0	28.(
		veinlets, calcite occurs as microfractures and	50312	112.02-113.50	1.48	0.165	0.60	25.0	135.0	180.0	61.0	10.(
		veinlets are less frequently as veins. MINERALIZATION-	50313	113.50-115.00	1.50	0.135	1.40	20.0	464.0	130.0	66.0	10.(
		1 to 2% very fine grained anhedral pyrite, in										
		chloritic matrix or veinlets pyrite increase to 2 to										
		5% as disseminations or clots. STRUCTURE- locall large										
		white to pink calcite veins 60 degrees to core axis,										
		lower contact is veined and brecciated.										
<89.50-115.05>		Moderate MT disseminated										
		MINERALIZATION- 1 to 2% very fine grained anhedral										
		pyrite, in chloritic matrix or veinlets pyrite										
		increase to 2 to 5% as disseminations or clots.										
<92.55-92.70>		Weak MT disseminated										
		MINERALIZATION- pod of black chlorite and 20% very										
		fine grained disseminated pyrite along margins of										
		chlorite sulphide very wispy, gangue, calcite fine										
		grained pyrite extends as stringers out of chloritic										
		pod to 93m. parallel to core axis.										
<92.55-92.70>		MINERALIZATION- Pod of black chlorite or 20% very fine										
		grained disseminated pyrite along margins of chlorite										
		sulphide very wispy, gangue, calcite, fine grained										
		pyrite extends as stringers out of chlorite pod to										
		93m. parallel to core axis.										
<111.70-112.05>		Moderate MT disseminated										
		8 % chalcopyrite - fine grained										
		MINERALIZATION- two semi-massive pyrite veins with										
		calcite gangue and 2 to 3cm. wide, black chloritic										
		margins, pyrite occurs as very fine grained and more										
		isolated coarse grained crystals, 30%, 5 to 10%										
		calcopyrite, calcopyrite is very fine grained.										
<111.70-112.05>		vein 45°										
		MINERALIZATION- Two semi-massive pyrite veins with										
		calcite gangue and 2 to 3cm. wide, black chloritic										
		margind, pyrite occurs as very fine grained										
		disseminations and more isolated coarse grained										
		crystals, 30%, 5 to 10% calcopyrite, calcopyrite is										
		very fine grained.										
<114.30-114.9		nterval begins with calcite crenulated crackle										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		brecciation, very angular clasts of K-spar altered BHFl at 114.6m. large pink calcite vein 60 degrees to core axis.										
115.05	122.30	volcaniclastics	50314	115.00-116.50	1.50	0.005		40.0	187.0	40.0	69.0	4.0
		Fine-coarse grained, green, fragmental	50315	116.50-118.00	1.50	0.005		39.0	154.0	40.0	49.0	
		calcite 65°	50316	118.00-119.50	1.50	0.005		36.0	164.0	40.0	42.0	
		Frs=5/m :Vns =6/m	50317	119.50-121.00	1.50	0.005		39.0	169.0	25.0	74.0	2.0
		Strong CL pervasive	50318	121.00-122.30	1.30	0.005		41.0	167.0	15.0	76.0	2.0
		Weak CB pervasive										
		Weak MS pervasive										
		?? CV vein										
		Interval, likely begins as brecciated contact of above BHFl, see fine crackle brecciated with chlorite matrix grades into chloritic crystal half and fragmental. ALTERATION- chlorite string, mostly as matrix, also oervasive, characterization of matrix, sericite weak to moderate, mostly of fragments and feldspar crystals, calcite weak pervasive and as numerous calcite veins and veinlets, pyrite 1 to 2% very fine grained disseminations.										
122.30	143.15	Biotite Hbl Fdsp xtalline	50319	122.30-124.00	1.70	0.010		34.0	105.0		76.0	4.0
		Aphanitic, dark green, mottled	50320	124.00-125.50	1.50	0.005		30.0	86.0		86.0	2.0
		calcite 70°:calcite 30°	50321	125.50-127.00	1.50	0.005		32.0	134.0	20.0	96.0	8.0
		Frs=7/m :Vns =4/m	50322	127.00-128.50	1.50	0.010		15.0	109.0	10.0	104.0	22.0
		Weak CL pervasive	50323	128.50-130.00	1.50	0.015	0.60	18.0	149.0	30.0	89.0	24.0
		Weak CB pervasive	50324	130.00-131.32	1.32	0.025	0.60	27.0	146.0	85.0	103.0	30.0
		Weak MS pervasive										
		Weak KS pervasive										
		?? CV microveins										
		Massive, very fine grained unit, begins with very fractured core in coarser grained portions, biotite, begins with weak to moderate K-spar and sercite pervasive with minor wispy stringers of chlorite and with pervasive calcite, likely incipient. ALTERATION- moderate calcite stockwork as vein and microveins, pyrite 2%, minor very fine grained dissemination, more common in pyrite/calcite veinlets.										
		<123.00-125.50> Broken Fractured core.										
		<126.60-127.25> Aphanitic, grayish-green, foliated cleavage, foliation 70°:calcite 70° Frs=2/m										

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 laminations										
		Zone of strong foliation increasing sericite and chlorite in zone and calcite veining parallel to core axis.										
<131.32-143.15>		Dark green	50325	131.32-133.00	1.68	0.005		18.0	148.0	10.0	49.0	12.0
		cleavage, foliation 30°	50326	133.00-134.50	1.50	0.005		15.0	215.0	10.0	42.0	8.0
		Weak CL stringer	50327	134.50-136.00	1.50	0.005		27.0	337.0	15.0	43.0	14.0
		Trace CB pervasive	50328	136.00-137.50	1.50	0.005		18.0	182.0	20.0	45.0	14.0
		Moderate KS pervasive	50329	137.50-139.00	1.50	0.005		17.0	221.0	15.0	44.0	10.0
		?? CV microveins	50330	139.00-140.50	1.50	0.005		16.0	145.0	45.0	50.0	12.0
		Same as above for lithology. moderate to strong K-spar alteration pervasive, moderate chlorite, fracture controlled, now moderately foliated, strong pervasvie sericite increasing in foliated zones at the expense of K-spar, calcite weak dissemination in massive portions, increasing to moderate dissemination in foliated zone, by end of interval more massive as above foliated zone.	50331	140.50-142.00	1.50	0.070		37.0	153.0	285.0	91.0	8.0
			50332	142.00-143.15	1.15	0.005		41.0	157.0	70.0	147.0	10.0
<132.70-132.80>		vein 40°										
		Two small pyrite veins, fine grained disseminated and coarse grained euhedral pyrite 30% in calcite gangue.										
<135.25-138.38>		Biotite Hbl Fdsp xtalline										
		Fine grained, dark green, foliated										
		cleavage, foliation 30°										
		Frs=5/m :Vns =15/m										
		Strong CL wispy										
		Strong MS wispy										
		Strongly foliated zone.										
143.15	154.45	volcaniclastics	50333	143.15-144.00	0.85	0.005		44.0	139.0	45.0	174.0	14.0
		Fine-coarse grained, green, fragmental	50334	144.00-145.50	1.50	0.005		36.0	124.0	40.0	102.0	12.0
		calcite 45°	50335	145.50-147.00	1.50	0.005		40.0	160.0	60.0	79.0	2.0
		Frs=5/m :Vns =2/m	50336	147.00-148.50	1.50	0.205		253.0	140.0	3115.0	70.0	4.0
		Strong CL pervasive	50337	148.50-150.00	1.50	0.005		43.0	197.0	40.0	88.0	8.0
		Trace CB disseminated	50338	150.00-152.00	2.00	0.080		213.0	153.0	2105.0	87.0	6.0
		Moderate MS pervasive	50339	152.00-154.00	2.00	0.005		41.0	161.0	45.0	314.0	10.0
		Moderate to strongly chloritic fragmental, weak upper contact, difficult to pin down, marked by increase in chlorite and identification of fragments and presence of epidote, fragments and much smaller crystals.										
		ALTERATION- pervasive moderate to strong sericite and chlorite, weak disseminated calcite and microvein as locally orange calcite veins, pyrite 2 to 3% commonly										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		as clots of very fine grained pyrite, also as veinlets and very fine grained crystals disseminated. NOTE: contacts are diffuse, distinct fragments and exotics.										
154.45	161.20	Hornblende Feldspar xtalline	50340	154.00-156.00	2.00	0.005		34.0	203.0	90.0	107.0	12.0
		Dark violet, massive	50341	156.00-158.00	2.00	0.005		31.0	175.0	40.0	49.0	12.0
		calcite 70°	50342	158.00-160.00	2.00	0.025		33.0	200.0	80.0	87.0	14.0
		Frs=8/m :Vns =3/m	50343	160.00-161.00	1.00	0.005		41.0	241.0	25.0	53.0	16.0
		Trace SI disseminated										
		Trace CL vein										
		Weak MS pervasive										
		Moderate KS pervasive										
		Weak PY disseminated										
		?? CV microveins										
		Massive, aphanitic unit? unit shows weak brecciation in ?										
		moderate K-spar altered, pervasive, weak pervasive sericite, chlorite veinlets and minor in matrix, calcite veinlets, pyrite 3% very fine grained dissemination and in small clots, rare fracture filling.										
161.20	200.10	volcaniclastics	50344	161.00-163.00	2.00	0.005		33.0	151.0	70.0	71.0	12.0
		Fine-coarse grained, dark green, fragmental	50345	163.00-165.00	2.00	0.005		36.0	142.0	50.0	73.0	8.0
		contact 60°	50346	165.00-165.85	0.85	0.005		42.0	133.0	65.0	111.0	16.0
		Frs=4/m :Vns =4/m	50347	165.85-167.00	1.15	0.005		39.0	133.0	45.0	107.0	16.0
		Moderate CL pervasive	50348	167.00-168.70	1.70	0.005		34.0	154.0	35.0	128.0	14.0
		Weak CB microveins										
		Moderate MS pervasive										
		Weak KS patches										
		Weak PY disseminated										
		?? CV microveins										
		Clearly see rounded fragments, upper contact=calcite filled fault, as does the ower contact at 70 degrees to core axis. ALTERATION- moderate, pervasive chlorite and sericite, patchy K-spar, weak, fracture controlled calcite, 2% disseminated pyrite, locally forms small clots.										
<168.70-187.93>		Frs=3/m	50349	168.70-170.00	1.30	0.005		40.0	149.0	45.0	148.0	16.0
		Weak CL matrix	50350	170.00-172.00	2.00	0.010		30.0	133.0	35.0	179.0	16.0
		Moderate CB microveins	50351	172.00-174.00	2.00	0.005		37.0	140.0	55.0	179.0	16.0
		Moderate MS pervasive	50352	174.00-176.00	2.00	0.005		35.0	130.0	90.0	101.0	14.0
		Trace PY disseminated	50353	176.00-178.00	2.00	0.005		32.0	126.0	200.0	89.0	12.0
		?? CV microveins	50354	178.00-180.00	2.00	0.010		34.0	124.0	185.0	60.0	12.0
		Fragmental, heterolithic, hard to discern, fragments	50355	180.00-182.00	2.00	0.005		34.0	103.0	85.0	69.0	10.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		but are locally indentifiable, pervasive sericite,	50356	182.00-184.00	2.00	0.005		31.0	103.0	55.0	88.0	20.0
		most noticeable in fragments, weak chlorite,	50357	184.00-186.00	2.00	0.005	0.20	32.0	144.0	35.0	120.0	16.0
		predominantly in matrix, calcite weak patchy										
		disseminations, and moderate veins and microveins,										
		finely disseminated pyrite 1%, rare pyrite veinlets.										
<187.93-200.10>		Aphanitic, dark green, foliated	50358	186.00-188.00	2.00	0.005	0.20	33.0	122.0	15.0	81.0	10.0
		cleavage, foliation	50359	188.00-190.00	2.00	0.005	0.60	19.0	91.0	5.0	59.0	14.0
		Frs=4/m :Vns =6/m	50360	190.00-192.00	2.00	0.005	1.20	26.0	148.0	120.0	67.0	28.0
		Weak CL patches	50361	192.00-194.00	2.00	0.005	1.80	24.0	160.0	135.0	84.0	62.0
		Moderate CB vein	50362	194.00-196.00	2.00	0.010	1.00	20.0	88.0	585.0	61.0	8.0
		Strong MS pervasive	50363	196.00-198.00	2.00	0.005	0.80	25.0	106.0	115.0	90.0	16.0
		Weak PY disseminated	50364	198.00-200.10	2.10	0.005	0.80	25.0	89.0	75.0	100.0	28.0
		Increase in determafix with ANFG? dramatic increase in										
		alteration to strong pervsive sericite, locally										
		moderate chlorite, foliation varies dramaticaly										
		through interval, locally crenulated, abundant calcite										
		veining. ALTERATION- strong pervasive sericite, patchy										
		chlorite, moderate calcite veining, minor very fine										
		grained disseminated pyrite 1 to 2%.										
200.10	202.50	mudstone	50365	200.10-202.50	2.40	0.145	1.20	21.0	75.0	1250.0	169.0	46.0
		Fine grained, grayish-blue, foliated, massive										
		cleavage, foliation 80°										
		Frs=10/m :Vns =10/m										
		Weak PY disseminated										
		?? CV microveins										
		Strongly folaited siltstone with intensely sericitized										
		fragments of volcanic, 2% disseminated pyrite, lower										
		contact=fault gouge.										
202.50	206.05	gabbro	50366	202.50-205.00	2.50	0.005		31.0	96.0	30.0	65.0	14.0
		Fine-medium grained, green, massive, veined	50367	205.00-206.05	1.05	0.005		27.0	28.0		42.0	10.0
		Frs=5/m :Vns =10/m										
		Trace CL pervasive										
		Trace MS pervasive										
		?? CV microveins										
		Unaltered weak (chlorite and sericite) gabbro with										
		calcite veinlets.										
(eoh)												

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-43

PROJECT: Clone	Date Commenced: 19/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-43	Date Completed: 20/07/96		Geotech by: DBL
LENGTH: 223.63	Core Diam: BQTK		

Collar Location

Latitude:	1939.11
Departure:	2008.84
Elevation:	1359.58

S U M M A R Y

0.00-0.61	CASING
0.61-43.00	Hornblende Feldspar xtalline **
43.00-48.50	rubbly fault zone *
48.50-54.25	Hornblende Feldspar xtalline
54.25-110.80	Biotite Hbl Fdsp xtalline *****
110.80-123.50	volcaniclastics ***
123.50-128.40	rubbly fault zone
128.40-135.90	volcaniclastics *
135.90-185.00	Biotite Hbl Fdsp xtalline *****
185.00-195.45	Hornblende Feldspar xtalline *****
195.45-198.50	semi-massive sulphides *
198.50-208.00	Hornblende Feldspar xtalline ****
208.00-211.00	shear zone
211.00-223.00	Hornblende Feldspar xtalline *
223.00-224.75	rubbly fault zone
224.75-227.30	Hornblende Feldspar xtalline
227.30-233.48	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	0.61	CASING Casing.										
0.61	4.10	Hornblende Feldspar xtalline	50368	0.61-2.00	1.39	0.005		10.0			33.0	12.0
		Fine grained, redish-green, crystalline, stockwork	50369	2.00-3.50	1.50	0.005	0.60	9.0	5.0	5.0	33.0	14.0
		Frs=8/m :Vns =30/m	50370	3.50-5.00	1.50	0.010		7.0	2.0		25.0	12.0
		Weak SI patches	50371	5.00-6.50	1.50	0.005		9.0	3.0	5.0	32.0	12.0
		Moderate CL pervasive	50372	6.50-8.00	1.50	0.005		7.0			30.0	14.0
		Moderate MS pervasive	50373	8.00-9.50	1.50	0.005		6.0	34.0		37.0	10.0
		Moderate KS pervasive	50374	9.50-11.00	1.50	0.005		7.0	28.0	10.0	42.0	14.0
		Weak EP stockwork	50375	11.00-12.50	1.50	0.005		9.0	73.0		44.0	12.0
		Moderate HE wispy	50376	12.50-14.00	1.50	0.010		8.0	27.0		32.0	14.0
		Trace PY disseminated	50377	14.00-15.50	1.50	0.010		18.0	18.0		29.0	12.0
		Weak CV stockwork	50378	15.50-17.00	1.50	0.005		19.0	58.0	10.0	26.0	10.0
		Weak QC stockwork	50379	17.00-18.50	1.50	0.005		13.0	19.0		47.0	12.0
		Mottled reddish green to medium green HFxl with 25%	50380	18.50-20.00	1.50	0.005		7.0	16.0		47.0	8.0
		dark green subhedral Hornblende needles to 2mm., local	50381	20.00-21.00	1.00	0.005		7.0	12.0		26.0	8.0
		rare anhedral cloudy feldspar ghosts to 1.5mm.. Rare	50382	21.00-22.00	1.00	0.005		8.0	11.0	10.0	21.0	8.0
		intercal or fragmental euhedral copper coloured platy	50383	22.00-23.00	1.00	0.005		8.0	38.0		24.0	8.0
		biotite phenos very fine grained to aphanitic matrix.	50384	23.00-24.00	1.00	0.005		11.0	13.0		22.0	10.0
		ALTERATION- moderate hematite stockwork or	50385	24.00-25.00	1.00	0.005		8.0		10.0	21.0	12.0
		microfracture controlled with less strong to moderate	50386	25.00-26.00	1.00	0.010		9.0	4.0	5.0	32.0	14.0
		pervasive patches and locally absent, moderate	50387	26.00-27.00	1.00	0.005		8.0	48.0		25.0	14.0
		pervsive and fracture fill chlorite, weak to moderate	50388	27.00-28.00	1.00	0.010	1.00	8.0	444.0		25.0	10.0
		light green pervasive sericite, moderate K-spar? local	50389	28.00-29.00	1.00	0.005		11.0	10.0		35.0	10.0
		weak to moderate patchy silica, local weak to moderate	50390	29.00-30.00	1.00	0.005		14.0	11.0		45.0	12.0
		stockwork of phenocrysts replacement epidote, weak	50391	30.00-31.00	1.00	0.010		15.0	9.0	5.0	52.0	12.0
		irregular calcite stockwork, local disseminated and	50392	31.00-32.00	1.00	0.020		11.0	17.0	15.0	29.0	12.0
		fracture fill pyrite near lower contact. Hematite	50393	32.00-33.00	1.00	0.100		11.0	8.0	10.0	39.0	12.0
		stockwork cone with local possible light zones.	50394	33.00-34.00	1.00	0.005		8.0	1.0	10.0	37.0	12.0
<0.61-4.10>		HFxl with 25% cloudy anhedral feldspar crystals to 1.5mm.										
<3.50-20.20>		QUARTZ-CALCITE VEINS microveins 45° Moderate EP microveins Moderate QC microveins Moderate quartz/epidote/calcite veins, to 2cm., commonly 5mm., average 45 degrees orientation, inconsistent however local feldpspar phenocryst replacing epidote. Later determination orientation related.										
<4.30-7.00>		Broken Core Strong to moderate angular broken core; fractures										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	commonly at high angles to core axis, moderate limonite fracture fill.										
<11.30-14.00>	sheeting 50° Weak SI patches Moderate HE SHEETED Moderate to strong sheeted, with less wispy stockwork and pervasive hematite; sheeting common at 50 degrees to core axis, weak patchy silica.										
<14.00-14.50>	Broken Core Weak angular broken core with moderate limonite fracture fill, irregular fracture orientation.										
<24.70-25.65>	Biotite Hbl Fdsp xtalline Green, crystalline Strong SI pervasive Weak HE wispy Medium green BHFl with 10% copper coloured to dark green, sub to euhedral biotite phenos to 3mm., strong pervasive chlorite, weak wispy silica.										
<25.20-27.30>	?? MT disseminated MINERALIZATION- 0.3% fine grained disseminated pyrite.										
<25.20-27.30>	MINERALIZATION- 0.3% fine grained disseminated pyrite.										
<27.10-28.30>	Moderate SI patches Weak HE wispy Moderate patchy silica, weak wispy hematite.										
<29.90-34.00>	Chlorite Streaming sheeting 45° Weak SI patches Strong CL SHEETED Moderate HE pervasive Moderate to weak patchy silcia, moderate to strong chlorite streaming and sheeting at 45 degrees, moderate pervasive and wispy hematite.										
<35.50-41.15>	Weak MT disseminated MINERALIZATION- 2% fine grained to medium grained disseminated pyrite.	50395 50396 50397	34.00-35.00 35.00-36.00 36.00-37.00	1.00 1.00 1.00	0.005 0.005 0.005		9.0 9.0 10.0	29.0 61.0 5.0	5.0 5.0	39.0 33.0 38.0	12.0 14.0 12.0
<35.50-41.15>	Chlorite Streaming Strong CL SHEETED Trace HE disseminated	50398 50399 50400	37.00-38.00 38.00-39.00 39.00-40.00	1.00 1.00 1.00	0.020 0.010 0.005		16.0 12.0 18.0	12.0 5.0 18.0	5.0 5.0 5.0	50.0 65.0 76.0	16.0 12.0 12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong to moderate irregular chlorite streaming, trace hematite within irregular small calcite patches. MINERALIZATION- 2% fine grained to medium disseminated pyrite.	50401	40.00-41.00	1.00	0.005		16.0	26.0		52.0	12.0
<41.15-43.00>		Weak SI patches Strong CL SHEETED Trace MT disseminated Strong HE pervasive Strong pervasive hematite, trace to weak disseminated magnetite, strong irregular chlorite streaming, weak patchy silica. MINERALIZATION- trace disseminated pyrite, very weak H-zone?	50403	41.00-42.00	1.00	0.010		13.0	24.0	10.0	51.0	20.0
			50404	42.00-43.00	1.00	0.005		12.0			68.0	10.0
43.00	48.50	rubbly fault zone	50405	43.00-44.00	1.00	0.005		6.0	14.0	5.0	35.0	8.0
		Gouge	50406	44.00-45.00	1.00	0.005		5.0		5.0	30.0	8.0
		Strong CL SHEETED	50407	45.00-46.00	1.00	0.005		7.0	132.0		42.0	12.0
		Rubbly broken core with weak limonite fracture fill. Up to 3cm. very fine grained gouge. Overprinted on strong chlorite fluid streaming, within HFxl. End of hematite stockwork zone.	50408	46.00-47.00	1.00	0.005		9.0	5.0	5.0	57.0	12.0
			50409	47.00-48.00	1.00	0.005		10.0			51.0	14.0
<43.01-47.10>		Chlorite Streaming D.A.P. 41.15 to 43.0										
<47.10-48.00>		Weak MT disseminated MINERALIZATION- 2% fine grained to medium grained disseminated pyrite.										
<47.10-48.00>		Chlorite Streaming sheeting 30° Moderate CL SHEETED Trace HE wispy Moderate irregular chlorite streaming, inconsistant at 30 degrees, weak wispy hematite. MINERALIZATION- 2% fine grained to medium grained disseminated pyrite.										
48.50	54.25	Hornblende Feldspar xtalline	50410	48.00-49.00	1.00	0.005		8.0	15.0		44.0	12.0
		Fine grained, green, broken, foliated	50411	49.00-50.00	1.00	0.010		7.0	15.0	5.0	34.0	10.0
		sheeting 45°:qz-carb veining 45°	50412	50.00-51.00	1.00	0.010		6.0	22.0		34.0	10.0
		Frs=18/m :Vns =40/m	50413	51.00-52.00	1.00	0.005		6.0	17.0		45.0	12.0
		Strong CL SHEETED	50414	52.00-53.00	1.00	0.095		24.0	15.0	10.0	106.0	14.0
		Weak QC stockwork Medium green HFxl with strong sheeted to braided chlorite, commonly at 45 degrees, often shallowing to 10 degrees, 25% to cryptic dark green to light gray subhedral hornblende needles to 1.5mm. very fine										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		grained matrix, possible transition zone between HFxl and BHFl. Moderate broken core with moderate limonite fracture fill throughout, graduational lower contact.										
54.25	110.80	Biotite Hbl Fdsp xtalline	50415	53.00-54.50	1.50	0.465		21.0	4.0	10.0	81.0	12.0
		Grayish-green, crystalline, massive	50416	54.50-56.00	1.50	0.770	0.20	167.0	5.0		68.0	12.0
		qz-carb veining 60°	50417	56.00-57.50	1.50	0.005		27.0	2.0	5.0	100.0	10.0
		Frs=7/m :Vns =20/m	50418	57.50-59.00	1.50	0.005		9.0	5.0		60.0	10.0
		Weak SI patches	50419	59.00-60.50	1.50	0.005		8.0	26.0		51.0	10.0
		Moderate CL pervasive	50420	60.50-62.00	1.50	0.010			130.0		76.0	14.0
		Moderate MS pervasive	50421	62.00-63.50	1.50	0.005	0.60	8.0	323.0		45.0	10.0
		Moderate KS pervasive	50422	63.50-65.00	1.50	0.005		11.0	21.0		63.0	14.0
		Trace HE disseminated	50423	65.00-66.50	1.50	0.005		7.0	163.0		86.0	14.0
		Moderate QC microveins	50424	66.50-68.00	1.50	0.005		7.0	162.0	5.0	85.0	14.0
		Monotonous gray green BHFl with 5% light gray to cream	50425	68.00-69.50	1.50	0.005		8.0	2.0		132.0	12.0
		sub to euhderal platy biotite phenos, 25% sub to	50426	69.50-71.00	1.50	0.005		8.0	3.0		108.0	14.0
		euhedral light gray to cream hornblende laths and	50427	71.00-72.50	1.50	0.005		8.0	15.0	10.0	87.0	12.0
		needles to 2.5mm. very fine grained to aphanitic	50428	72.50-74.00	1.50	0.005		7.0		15.0	106.0	14.0
		matrix. Local zones of mottled BHFl/HFxl, possibly	50429	74.00-75.50	1.50	0.005		13.0		5.0	93.0	12.0
		reflective of more clearly fragmentals at surface.	50430	75.50-77.00	1.50	0.010	0.20	9.0	57.0	15.0	82.0	22.0
		ALTERATION- moderate to strong pervasive K-spar,	50431	77.00-78.50	1.50	0.005		6.0	17.0	25.0	64.0	18.0
		moderate to strong pervasive and phenocryst	50432	78.50-80.00	1.50	0.005		36.0	144.0	75.0	69.0	12.0
		replacement sericite, weak to absent patchy silica and	50433	80.00-81.50	1.50	0.005		37.0	111.0	70.0	64.0	20.0
		weak calcite in microveins to 4mm. Local zones of very	50434	81.50-83.00	1.50	0.005		41.0	160.0	100.0	52.0	18.0
		weak arsenopyrite and pyrite.	50435	83.00-84.50	1.50	0.005		35.0	162.0	60.0	56.0	18.0
<57.00-61.50>		Weak SI patches										
		Weak patchy silica										
<59.80-64.80>		Weak MT fine grained										
		.6% arsenopyrite - disseminated										
		MINERALIZATION- 0.3 to 1% fine grained disseminated										
		arsenopyrite? 2% very fine grained to fine grained										
		granular pyrite as small patches, strong										
		quartz/calcite stockwork at 60 degrees.										
<59.80-64.80>		VEINED & DISSEMINATED SULPHIDE										
		qz-carb veining 60°										
		MINERALIZATION- 0.3 to 1% fine grained disseminated										
		arsenopyrite? 2% very fine grained to fine grained										
		granular pyrite as small patches, strong										
		quartz/calcite stockwork at 60 degrees.										
<71.00-74.90>		Strong MT disseminated										
		MINERALIZATION- 4% wispy disseminated pyrite, weak										
		patchy silica, moderate patchy pervasive chlorite.										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<71.00-74.90>	VEINED & DISSEMINATED SULPHIDE Weak SI patches Moderate CL pervasive MINERALIZATION- 4% wispy disseminated pyrite, weak patchy silica, moderate patchy pervasive chlorite.										
<75.00-84.50>	Moderate MT disseminated MINERALIZATION- 3% disseminated pyrite.										
<75.00-84.50>	Biotite Hbl Fdsp xtalline Fine grained, dark green, mottled Strong CL pervasive Dark green mottled BHFl? 2% to cryptic dark green to light gray subhedral biotite phenos to 3mm. Variations in grainsize suggest possible fragmental unit, strong pervasive chlorite. MINERALIZATION- 3% disseminated pyrite.										
<77.25-78.50>	Broken Core Weak angular broken core with trace fine grained gouge, moderate limonite fracture fill and weak bleaching. Same sections of bladed butterfly calcite. Maybe not fault, but related to later tension fractures.										
<82.90-83.30>	Moderate angular broken core with moderate bleaching and limonite fracture fill.										
<85.30-93.50>	Weak MT wispy MINERALIZATION- 2% fine grained to medium grained wispy pyrite with less dissemination.	50436 50437 50438	84.50-86.00 86.00-87.50 87.50-89.00	1.50 1.50 1.50	0.010 0.005 0.005		22.0 13.0 15.0	84.0 52.0 37.0	35.0 15.0 10.0	65.0 67.0 61.0	24.0 24.0 24.0
<85.30-93.50>	VEINED & DISSEMINATED SULPHIDE MINERALIZATION- 2% fine grained to medium grained wispy pyrite with less dissemination.	50439 50440 50441	89.00-90.50 90.50-92.00 92.00-93.50	1.50 1.50 1.50	0.005 0.005 0.005		16.0 12.0 10.0	43.0 36.0 10.0	25.0 20.0 20.0	55.0 54.0 56.0	22.0 18.0 16.0
<99.15-100.00>	microveins 30° MINERALIZATION- 2% pyrite, 1% calcopyrite as 2mm. wide stringers with 1cm. silica/K-spar selvages, three at 30 degrees.	50442 50443 50444 50445	93.50-95.00 95.00-96.50 96.50-98.00 98.00-99.50	1.50 1.50 1.50 1.50	0.010 0.005 0.005 0.005		14.0 13.0 12.0 14.0	36.0 34.0 24.0 46.0	25.0 15.0 5.0 10.0	64.0 64.0 59.0 61.0	20.0 18.0 16.0 18.0
<106.00-110.80>	Strong MT wispy MINERALIZATION- 4% wispy fine grained pyrite with less dissemination and fracture fill.	50446 50447 50448	99.50-101.00 101.00-102.50 102.50-104.00	1.50 1.50 1.50	0.005 0.005 0.005		10.0 17.0 13.0	78.0 46.0 43.0	35.0 20.0	64.0 48.0 51.0	16.0 16.0 14.0
<106.00-110.80>	VEINED & DISSEMINATED SULPHIDE MINERALIZATION- 4% wispy fine grained pyrite with less	50449 50450	104.00-105.50 105.50-107.00	1.50 1.50	0.005 0.005		11.0 16.0	22.0 65.0	35.0	44.0 49.0	14.0 16.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		dissemination and fracture fill.	50451	107.00-108.50	1.50	0.005		13.0	45.0	20.0	47.0	16.0
110.80	123.50	volcaniclastics	50452	108.50-110.00	1.50	0.005		10.0			77.0	8.0
		Dark green, mottled	50453	110.00-111.00	1.00	0.010	0.60	9.0	155.0		43.0	4.0
		Frs=8/m :Vns =10/m	50454	111.00-112.00	1.00	0.005		8.0	5.0		61.0	4.0
		Intense CL pervasive	50455	112.00-113.00	1.00	0.010		7.0	6.0		54.0	6.0
		Moderate MS patches	50456	113.00-114.00	1.00	0.010		8.0	1.0	10.0	54.0	8.0
		Weak CV stockwork	50457	114.00-115.00	1.00	0.005		10.0	36.0		56.0	8.0
		Dark green to black probable fragmental, quite	50458	115.00-116.00	1.00	0.005		7.0	42.0	15.0	55.0	8.0
		sulphide rich. Up to 20% pebble to cobble sized	50459	116.00-117.00	1.00	0.005		7.0	5.0	5.0	61.0	4.0
		fragments? maybe resultant from alteration. Fragments	50460	117.00-118.00	1.00	0.040	1.00	12.0	179.0		79.0	8.0
		appear to be HFxl of varying grain size from very fine	50461	118.00-119.00	1.00	0.010		41.0	5.0	10.0	158.0	6.0
		grained to medium grained within HFxl matrix, with 15	50462	119.00-120.50	1.50	0.005		47.0	190.0	40.0	80.0	24.0
		to 20% commonly cryptic black to dark green to light	50463	120.50-122.00	1.50	0.010		37.0	139.0	35.0	71.0	22.0
		gray sub to anhedral hornblende needles to 1.5mm.	50464	122.00-123.50	1.50	0.005		37.0	123.0	20.0	65.0	24.0
		ALTERATION- strong tointense dark green to black										
		pervasive chlorite, moderate patchy light green										
		sercite, weak irregular calcite stockwork. Up to 15%										
		disseminated and patchy pyrite.										
<110.80-114.75>		Trace MT disseminated										
		MINERALIZATION- 15% fine grained to medium grained										
		disseminated pyrite with less irregular granular										
		patches.										
<110.80-114.75>		VEINED & DISSEMINATED SULPHIDE										
		MINERALIZATION- 15% fine grained to medium grained										
		disseminated pyrite with less irregular granular										
		patches.										
<111.70-111.80>		Intense MT disseminated										
		MINERALIZATION- 5% disseminated pyrite.										
<111.70-111.80>		Hematite/pyrite/calcite vein										
		vein 25°										
		3cm. hematite/chlorite/calcite vein at 25 degrees with										
		fine grained disseminated hematite speckles.										
		MINERALIZATION- 5% disseminated pyrite.										
<114.75-119.60>		?? MT disseminated										
		MINERALIZATION- 8% fine grained to medium grained										
		disseminated pyrite with less granular patches and										
		fracture fill.										
<114.75-119.60>		VEINED & DISSEMINATED SULPHIDE										
		MINERALIZATION- 8% fine grained to medium grained										
		disseminated pyrite with less granular patches and										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		fracture fill.										
		<121.00-121.70> rubbly fault zone gouge 25° Rusty gougy fault splay at 25 degrees with moderate broken core and medium limonite fracture fill.										
		<123.50-128.40> gouge 15° Intense CL pervasive Weak MS patches Weak CV microveins Rubbly, gougy fault zone within HFBx, D.A.P. 110.8 to 123.50m. Several gougy splays to 1cm., usually at 10 to 20 degrees, average 15 degrees.	50465	123.50-125.00	1.50	0.005		38.0	143.0	35.0	67.0	18.0
			50466	125.00-126.50	1.50	0.005		43.0	144.0	75.0	192.0	54.0
			50467	126.50-128.00	1.50	0.005		42.0	132.0	95.0	92.0	26.0
128.40	135.90	volcaniclastics Greenish-gray, mottled Frs=12/m :Vns =18/m Strong CL pervasive Moderate CV stockwork Dark green gray to dark gray weakly/subtly probable fragmental. Patchy variations in subhedral phenocrysts sizes from 2.5mm. to aphanitic likely resultant from different fragmenatl. No clear fragment boundaries, however sub to anhedral hornblende/epidote light gray oikiocrysts are likely matrix, up to 2.5m in length with very fine grained to aphanitic groundmass. ALTERATION- strong pervasive dark gray chlorite, moderate irregular patchy calcite stockwork, locally orange. MINERALIZATION- 5% fine grained to medium grained disseminated pyrite.	50468	128.00-129.50	1.50	0.005		41.0	139.0	70.0	69.0	22.0
			50469	129.50-131.00	1.50	0.005	0.40	42.0	154.0	50.0	69.0	22.0
			50470	131.00-132.50	1.50	0.005		46.0	175.0	40.0	107.0	24.0
			50471	132.50-134.00	1.50	0.010		38.0	92.0	10.0	119.0	20.0
			50472	134.00-135.50	1.50	0.025	0.40	31.0	79.0	80.0	77.0	12.0
		<128.40-135.90> MINERALIZATION- 5% fine grained to medium grained disseminated pyrite.										
		<134.28-134.80> calcite vein contact 40°:contact 60° White to purplish to greenish irregular calcite vein, upper contact=40 degrees, lower contact=60 degrees.										
135.90	185.00	Biotite Hbl Fdsp xtalline Fine grained, green, mottled Weak SI patches Strong CL pervasive Weak MS pervasive Weak KS patches Trace HE disseminated	50473	135.50-137.00	1.50	0.105	0.60	166.0	223.0	260.0	89.0	20.0
			50474	137.00-138.50	1.50	0.020	0.40	40.0	96.0	85.0	78.0	14.0
			50475	138.50-140.00	1.50	0.005		14.0	24.0	30.0	67.0	16.0
			50476	140.00-141.50	1.50	0.005		8.0	21.0	15.0	76.0	16.0
			50477	141.50-143.00	1.50	0.005		11.0	57.0	20.0	73.0	24.0
			50478	143.00-144.50	1.50	0.005		11.0	35.0	350.0	62.0	16.0
			50479	144.50-146.00	1.50	0.005	0.20	14.0	63.0	65.0	72.0	20.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Trace PY disseminated	50480	146.00-147.50	1.50	0.005		17.0	48.0	45.0	76.0	32.0
		Weak_CV stockwork	50481	147.50-149.00	1.50	0.005		13.0	54.0	80.0	72.0	26.0
		Transition phase medium to dark green to gray green	50482	149.00-150.50	1.50	0.115	2.20	48.0	282.0	235.0	778.0	244.0
		HFxl?BHFl with 0.5 to 3% cream to light gray to light	50483	150.50-152.00	1.50	0.005	0.40	16.0	66.0	40.0	93.0	28.0
		green hornblende phenos to 3mm. very fine grained to	50484	152.00-153.50	1.50	0.030	0.40	21.0	93.0	40.0	113.0	38.0
		aphanitic matrix. Common mottled to autobrecciated	50485	153.50-155.00	1.50	0.080	1.20	31.0	194.0	85.0	186.0	62.0
		texture. ALTERATION- strong pervasive and wispy	50486	155.00-156.50	1.50	0.135	1.80	40.0	438.0	715.0	135.0	46.0
		chlorite, strong irregular stockwork patchy and	50487	156.50-158.00	1.50	0.520	0.60	54.0	100.0	435.0	101.0	26.0
		fracture fill calcite, locally with hematite near	50488	158.00-159.50	1.50	0.005		8.0	26.0	10.0	65.0	20.0
		upper contact, weak local patchy silica. Trace local	50489	159.50-161.00	1.50	0.060	0.40	25.0	82.0	75.0	113.0	40.0
		disseminated pyrite.	50490	161.00-162.50	1.50	0.175	1.00	13.0	107.0	100.0	306.0	216.0
<136.40-136.90>		Broken Core										
		Strong subrounded broken core with 2% fine grained										
		gouge, irregular fracture orientation, gouge may										
		actually be cuttings.										
<138.15-138.6		Moderate angular broken core, trace limonite fracture										
		fill, very weak fault splay.										
<141.20-145.00>		Hematite chlorite calcite vein										
		Weak SI patches										
		Weak HE disseminated										
		Moderate CV stockwork										
		Weak to absent patchy silcia, weak irregular calcite										
		stockwork/microveins with disseminated red hematite.										
<148.80-149.10>		QUARTZ-CALCITE VEINS										
		qz-carb veining 60°										
		Quartz/calcite veins to 15cm at 60 degrees.										
<149.18-149.30>		Intense MT patches										
		2 % arsenopyrite - wispy										
		MINERALIZATION- 2% fine grained wispy arsenopyrite, 5%										
		fine grained pyrite as irregular granular patches.										
<149.18-149.30>		VEINED & DISSEMINATED SULPHIDE										
		MINERALIZATION- 2% fine grained wispy arsenopyrite, 5%										
		fine grained pyrite as irregulaar granular patches.										
<153.30-156.65>		Strong MT medium grained										
		.3% arsenopyrite - disseminated										
		MINERALIZATION- 0.3% disseminated wispy arsenopyrite,										
		4% medium grained pyrite in patches generally with										
		calcite.										
<153.30-156.65>		VEINED & DISSEMINATED SULPHIDE										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Moderate SI selvages Moderate patchy silica or as selvages to irregular sulphide/chlorite stringers. MINERALIZATION- 0.3% disseminated wispy arsenopyrite, 4% medium grained pyrite in patches generally with calcite.										
<157.65-157.80>	rubbly fault zone gouge 30° Weak fault splay, 8mm. fine grained to medium grained gouge at 20 degrees with strong angular broken core.										
<159.00-163.50>	Strong MT patches .2% arsenopyrite - disseminated MINERALIZATION- trace disseminated arsenopyrite, 4% fine grained to medium patchy pyrite weak silica as irregular patchy and irregular stringers (chlorite/sulphide) selvages.										
<159.00-163.50>	VEINED & DISSEMINATED SULPHIDE Weak SI selvages MINERALIZATION- trace disseminated arsenopyrite, 4% fine grained to medium grained patchy pyrite weak silica as irregular patchy and irregular stringers (chlorite/sulphide) selvages.										
<167.00-172.30>	Moderate MT fine grained MINERALIZATION- 3% fine grained pyrite, trace arsenopyrite.	50491 50492 50493	162.50-164.00 164.00-165.50 165.50-167.00	1.50 1.50 1.50	0.020 0.070 0.025	1.20 1.00 0.60	28.0 41.0 15.0	191.0 275.0 137.0	65.0 50.0 25.0	389.0 137.0 84.0	114.0 36.0 22.0
<167.00-172.30>	VEINED & DISSEMINATED SULPHIDE Moderate SI patches Moderate patchy silica. MINERALIZATION- 3% fine grained pyrite, trace arsenopyrite.	50494 50495 50497	167.00-168.50 168.50-170.00 170.00-171.50	1.50 1.50 1.50	0.005 0.005 0.005		30.0 30.0 31.0	17.0 17.0 16.0		98.0 100.0 102.0	24.0 24.0 24.0
<175.50-178.00>	Moderate MT wispy MINERALIZATION- 3% wispy pyrite with less medium grained granular patches commonly with calcite, trace arsenopyrite, weak to moderate patchy silica and as chlorite (+/-) sulphide stringer selvages.	50498 50499 50500 50501	171.50-173.00 173.00-174.50 174.50-176.00 176.00-177.50	1.50 1.50 1.50 1.50	0.010 0.005 0.005 0.005		31.0 31.0 31.0 31.0	18.0 19.0 18.0 16.0		102.0 103.0 104.0 107.0	26.0 26.0 28.0 30.0
<175.50-178.00>	VEINED & DISSEMINATED SULPHIDE Moderate SI selvages MINERALIZATION- 3% wispy pyrite with less medium grained granular patches commonly with calcite, trace arsenopyrite, weak to moderate patchy silica and as chlorite (+/-)b sulphide stringer selvages.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<184.00-185.00>		Chlorite Streaming foliated 35°	50502	177.50-179.00	1.50	0.005		31.0	17.0		109.0	30.0
			50503	179.00-180.50	1.50	0.005		31.0	17.0		108.0	28.0
		Weak foliation (sericite/chlorite +/- pyrite) at 35 degrees.	50504	180.50-182.00	1.50	0.005		31.0	19.0		109.0	32.0
			50505	182.00-183.50	1.50	0.005		30.0	18.0		109.0	30.0
185.00	195.45	Hornblende Feldspar xtalline	50506	183.50-185.00	1.50	0.170	0.40	36.0	95.0	560.0	118.0	44.0
		Fine grained, grayish-green, veined	50507	185.00-186.00	1.00	0.360		44.0	95.0	420.0	78.0	24.0
		macroveins 25°	50508	186.00-187.00	1.00	0.135	0.20	32.0	70.0	265.0	59.0	22.0
		Frs=10/m :Vns =80/m	50509	187.00-188.00	1.00	0.020		25.0	37.0	160.0	39.0	18.0
		Moderate SI pervasive	50510	188.00-189.00	1.00	0.255		82.0	139.0	865.0	60.0	16.0
		Strong CL pervasive	50511	189.00-190.00	1.00	0.600		133.0	111.0	1835.0	61.0	18.0
		Trace MS pervasive	50512	190.00-191.00	1.00	0.095		55.0	154.0	285.0	66.0	14.0
		Trace MT disseminated	50513	191.00-192.00	1.00	0.055		53.0	98.0	515.0	77.0	14.0
		Trace HE disseminated	50514	192.00-193.00	1.00	0.005		33.0	65.0	45.0	168.0	10.0
		Strong PY patches	50515	193.00-194.00	1.00	0.005		43.0	106.0	55.0	188.0	18.0
		Strong QC microveins	50516	194.00-195.00	1.00	0.005	0.20	18.0	101.0	30.0	47.0	8.0
		S-zone medium to dark green gray HFxl with 25% light green to light gray subhedral hornblende needles to 1.5mm. No observable biotite or feldspar phenos; very fine grained to aphanitic matrix. ALTERATION- moderate pervasive to patchy silica, strong to intense pervasive chlorite, increasing to wards lower contact. Strong irregular quartz/calcite veins mineralized by irregular very fine grained to medium grained pyrite patches usually with calcite in irregular veins commonly with arsenopyrite in rare traces of hematite or magnetite. Maybe S2A zone. Near on section to CL96-18.											
<185.35-185.45>		MINERALIZATION- 10% pyrite, 1% arsenopyrite.										
<185.35-185.45>		SULPHIDE VEIN vein 35°										
		1cm. pyrite/arsenopyrite vein at 35 degrees. MINERALIZATION- 10% pyrite, 1% arsenopyrite.										
<185.45-186.50>		?? MT stringer										
		MINERALIZATION- 6% fine grained to medium grained stringer pyrite with less dissemination.										
<185.45-186.50>		VEINED & DISSEMINATED SULPHIDE										
		MINERALIZATION- 6% fine grained to medium grained stringer pyrite with less dissemination.										
<186.50-186.65>		Moderate MT vein										
		MINERALIZATION- 8cm. pyrite/calcite vein (30%) at 25 degrees.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<186.50-186.65> pyrite vein or veinlet vein 25° MINERALIZATION- 8cm. pyrite/calcite vein (30%) at 25 degrees.										
		<186.65-190.00> ?? MT patches MINERALIZATION- 6% medium grained pyrite as granular patches with less dissemination.										
		<186.65-190.00> VEINED & DISSEMINATED SULPHIDE Strong SI pervasive Strong CB patches Strong QC microveins ALTERATION- strong calcite patches and with silica in veins; silica also as strong pervasive. MINERALIZATION- 6% medium grained pyrite as granular patches with less dissemination.										
		<190.00-190.25> pyrite vein or veinlet vein 15° 3cm. pyrite vein with calcite and chlorite at 15 degrees.										
		<190.25-195.45> ?? MT patches MINERALIZATION- 7% fine grained to medium grained pyrite as granular patches with less dissemination.										
		<190.25-195.4[illegible]MINERALIZATION- 7% fine grained to medium grained as granular patches with less dissemination.										
195.45	198.50	semi-massive sulphides Aphanitic, ish-yellow, massive macroveins 25° Frs=6/m Intense CL massive Moderate CB patches Strong MT patches Massive sulphide, mainly pyrite to 1.4m., as irregular pods inconsistently oriented 25 degrees and shallower. Intercalibrated massive dark green chlorite patches, strong patchy magnetite. MINERALIZATION- 75% fine grained to medium grained pyrite, 2% medium grained arsenopyrite.	50517 50518 50519	195.00-196.00 196.00-197.00 197.00-198.00	1.00 1.00 1.00	0.005 0.005 0.005	0.20 0.20	25.0 26.0 27.0	149.0 143.0 149.0	255.0 40.0 60.0	71.0 75.0 65.0	14.0 12.0 14.0
		<195.45-198.50> ?? MT fine grained 2 % arsenopyrite - medium grained										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- 75% fine grained to medium grained pyrite, 2% medium grained arsenopyrite.										
198.50	208.00	Hornblende Feldspar xtalline	50520	198.00-199.00	1.00	0.005	0.40	23.0	99.0	45.0	99.0	28.0
		Fine grained, dark green, veined	50521	199.00-200.00	1.00	0.010	0.80	21.0	130.0	75.0	327.0	36.0
		Frs=10/m :Vns =80/m	50522	200.00-201.00	1.00	0.020	1.20	26.0	165.0	40.0	344.0	46.0
		Trace SI patches	50523	201.00-202.00	1.00	0.005	1.40	20.0	67.0	95.0	101.0	22.0
		Intense CL pervasive	50524	202.00-203.00	1.00	0.005	1.60	26.0	79.0	15.0	91.0	14.0
		Strong CB patches	50525	203.00-204.00	1.00	0.005	1.60	22.0	70.0	20.0	102.0	18.0
		Weak MS pervasive	50526	204.00-205.00	1.00	0.005	0.80	23.0	63.0	25.0	84.0	18.0
		Moderate PY patches	50527	205.00-206.00	1.00	0.010	0.60	18.0	44.0	65.0	62.0	30.0
		S-zone within HFxl, D.A.P.- 185 to 195.40m., with weak	50528	206.00-207.00	1.00	0.025	1.80	23.0	71.0	220.0	194.0	160.0
		to absent patchy silica intense pervasive chlorite,	50529	207.00-208.00	1.00	0.010	2.20	20.0	69.0	90.0	227.0	200.0
		strong patchy calcite with moderate patchy pyrite.										
		<200.65-201.04> Weak MT patches										
		MINERALIZATION- 20% fine grained to medium grained pyrite as granular patches generally with calcite, inconsistent orientation, trace arsenopyrite.										
		<200.65-201.04> semi-massive sulphides										
		MINERALIZATION- 20% fine grained to medium grained pyrite as granular patches generally with calcite, inconsistant orientation, trace arsenopyrite.										
		<201.35-202.30> ?? MT massive										
		3 % chalcopyrite - disseminated										
		MINERALIZATION- 60% massive pyrite, 2% arsenopyrite, 3% disseminated calcopyrite.										
		<201.35-202.30> semi-massive sulphides										
		MINERALIZATION- 60% massive pyrite, 2% arsenopyrite, 3% disseminated calcopyrite.										
		<203.20-203.60> Trace MT patches										
		.3% arsenopyrite - patches										
		MINERALIZATION- 18% pyrite as fine grained to medium grained irregular granular patches, 0.3% medium grained to fine grained granular arsenopyrite patches.										
		<203.20-203.6[illegible]INERALIZATION- 18% pyrite as fine grained to medium grained irregular granular patches, 0.3% medium grained to fine grained granular arsenopyrite patches.										
		<203.60-208.00> Intense MT vein										
		MINERALIZATION- 5% fine grained to medium grained pyrite as veins generally with calcite from 25 to 40										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		degrees to 1.5cm, with less dissemination.										
		<203.60-208.00> VEINED & DISSEMINATED SULPHIDE macroveins 25°:macroveins 40° MINERALIZATION- 5% fine grained to medium grained pyrite as veins generally with calcite from 25 to 40 degrees to 1.5cm, with less dissemination.										
208.00	211.00	shear zone	50530	208.00-209.00	1.00	0.040	2.20	22.0	71.0	110.0	164.0	110.0
		Fine grained, pale gray, bleached, foliated	50531	209.00-210.00	1.00	0.010	2.20	23.0	61.0	125.0	202.0	94.0
		gouge 20°	50532	210.00-211.00	1.00	0.005	2.40	21.0	60.0	150.0	226.0	62.0
		Strong CV stockwork										
		Strongly bleached, irregularly foliated inconsistently at 70 degrees with narrow gouge seems HFxl. Likely some sort of fault or shear zone. Likely weak clay alteration, moderate irregular calcite stockwork. Overprinted by weak broken core.										
211.00	223.00	Hornblende Feldspar xtalline	50533	211.00-212.00	1.00	0.005	2.80	23.0	71.0	95.0	284.0	72.0
		Fine grained, dark green, crystalline, mottled	50534	212.00-213.00	1.00	0.005	1.40	25.0	73.0	35.0	352.0	38.0
		Frs=10/m :Vns =35/m	50535	213.00-214.00	1.00	0.010	19.00	29.0	128.0	65.0	3936.0	5070.0
		Intense CL pervasive	50536	214.00-215.00	1.00	0.005	2.60	34.0	107.0	125.0	323.0	82.0
		Moderate CB patches	50537	215.00-216.00	1.00	0.005	2.40	38.0	120.0	85.0	143.0	48.0
		Moderate MS wispy	50538	216.00-217.00	1.00	0.005	2.60	36.0	130.0	130.0	349.0	80.0
		Moderate MT pervasive	50539	217.00-218.00	1.00	0.005	1.40	28.0	91.0	85.0	162.0	50.0
		Trace HE wispy	50540	218.00-219.00	1.00	0.005	1.00	34.0	114.0	50.0	106.0	34.0
		Weak PY disseminated	50541	219.00-220.00	1.00	0.010	2.80	30.0	114.0	25.0	635.0	182.0
		Moderate CV microveins	50542	220.00-221.00	1.00	0.005	3.00	26.0	106.0	60.0	845.0	116.0
		Magnetite halo, dark green to dark gray green HFxl	50543	221.00-222.00	1.00	0.005	3.20	27.0	88.0	45.0	866.0	132.0
		with 20% dark gray to dark green subhedral hornblende	50544	222.00-223.00	1.00	0.005	2.20	23.0	71.0	75.0	742.0	170.0
		phenos to 1cm. fine grained to very fine grained matrix. ALTERATION- weak to moderate pervasive magnetite, increasing towards lower contact, intense dark green pervasive chlorite, moderate irregular patchy calcite. MINERALIZATION- 2 to 3% fine grained to medium grained disseminated pyrite with less irregular granular patches, typical pervasive magentite halo also seen at depth in system in hole CL96-30.										
		<211.00-223.00> MINERALIZATION- 2 to 3% fine grained to medium grained disseminated pyrite with less irregular granular patches, typical pervasive magnetite halo also seen at depth in system in hole CL96-30.										
		<216.00-221.00> calcite vein cleavage, foliation 60°										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Trace HE disseminated Weak PY disseminated Moderate CV microveins Moderate calcite +/- chlorite with very rare hematite and rare pyrite, inconsistent at 60 degrees.										
223.00	224.75	rubbly fault zone Gouge Gougy chloritic fault zone within HFxl with strong to rubbly angular broken core. Inconsistant fracture orientation.	50545	223.00-224.75	1.75	0.005	2.40	27.0	98.0	75.0	243.0	130.0
224.75	227.30	Hornblende Feldspar xtalline Fine grained, green, crystalline, mottled cleavage, foliation 60° Frs=10/m :Vns =55/m Strong CL pervasive Weak CB patches Moderate MS pervasive Moderate CV microveins Dark gray green HFxl with 20% dark green subhedral hornblende needles to 1mm., commonly cryptic very fine grained to aphanitic matrix. ALTERATION- strong pervasive chlorite, moderate pervasive sericite, moderate patchy calcite and veins to 60 degrees.	50546 50547	224.75-226.00 226.00-227.00	1.25 1.00	0.005 0.005	3.60 2.00	25.0 19.0	91.0 50.0	65.0 20.0	353.0 210.0	100.0 60.0
227.30	233.48	tuff Fine grained, tanish-gray foliated 45° Moderate CB patches Intense MS pervasive Strong KS pervasive Light tan to gray altered sediments? very fine grained to medium grained highly contorted fine grained units intercalibrated with medium grained granular units; altered sandstone crystal tuff or dykelette foliation highly irregular, but often at 45 degrees, likely remnant bedding. Serecitized irregular HFxl dykelette to 40 cm. with common cream subhedral phenos to 2.5mm. with very fine grained to aphanitic matrix. ALTERATION- intense pervasive sericte, likely strong pervasive K-spar, moderate patchy calcite.	50548 50549 50550 50551 50552	227.00-228.00 228.00-229.50 229.50-231.00 231.00-232.50 232.50-233.48	1.00 1.50 1.50 1.50 0.98	0.005 0.025 0.040 0.030 0.010	0.40 1.80 1.20 1.20 1.40	11.0 33.0 31.0 25.0 24.0	21.0 144.0 135.0 163.0 167.0	 5.0 15.0 10.0	59.0 197.0 139.0 118.0 80.0	12.0 42.0 30.0 26.0 28.0
(eoh)												

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-44

PROJECT: Clone	Date Commenced: 21/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-44	Date Completed: 22/07/96		Geotech by: DBL
LENGTH: 171.72	Core Diam: BQTK		

Collar Location

Latitude:	1939.09
Departure:	2008.58
Elevation:	1359.38

SUMMARY

0.00-0.32	CASING
0.32-23.50	Hornblende Feldspar xtalline *
23.50-63.12	Hornblende Feldspar xtalline *
63.12-67.00	Semi-massive hematite ****
67.00-87.90	Biotite Hbl Fdsp xtalline **
87.90-111.09	Biotite Hbl Fdsp xtalline ***
111.09-116.35	Hornblende Feldspar xtalline **
116.35-121.80	volcaniclastics *
121.80-139.00	Hornblende Feldspar xtalline ***
139.00-171.60	volcaniclastics

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	270.00	-60.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	0.32	CASING Casing.										
0.32	23.50	Hornblende Feldspar xtalline	50553	0.32-2.00	1.68	0.010		18.0	125.0	10.0	48.0	24.0
		Fine grained, redish-green, crystalline	50554	2.00-3.00	1.00	0.025		17.0	28.0	10.0	56.0	24.0
		Frs=10/m :Vns =30/m	50555	3.00-4.00	1.00	0.005		16.0	37.0	20.0	54.0	22.0
		Weak SI patches	50556	4.00-5.00	1.00	0.115		19.0	93.0	15.0	44.0	20.0
		Moderate CL pervasive	50557	5.00-6.00	1.00	0.270		16.0	82.0	15.0	40.0	20.0
		Moderate MS pervasive	50558	6.00-7.00	1.00	0.005		14.0	85.0	20.0	35.0	18.0
		Weak EP stockwork	50559	7.00-8.00	1.00	0.005		14.0	57.0	10.0	35.0	18.0
		Moderate HE wispy	50560	8.00-9.00	1.00	0.005		13.0	86.0	20.0	26.0	18.0
		Weak CV stockwork	50561	9.00-10.00	1.00	0.030		41.0	50.0	20.0	130.0	22.0
		Weak QC stockwork	50562	10.00-11.00	1.00	0.005		45.0	113.0	25.0	126.0	22.0
		Medium green to gray green streaked red with hematite	50563	11.00-12.00	1.00	0.010		47.0	399.0	20.0	73.0	26.0
		HFxl with 25% light green to light gray subhedral to	50564	12.00-13.00	1.00	0.005		39.0	125.0	30.0	67.0	24.0
		anhedral Hornblende phenos to 1.5mm., commonly cryptic	50565	13.00-14.00	1.00	0.010		15.0	66.0	20.0	33.0	18.0
		fine grained to aphantic matrix. ALTERATION- moderate	50566	14.00-15.00	1.00	0.005		13.0	155.0	15.0	30.0	20.0
		locally strong hematite as irregular wispy stockwork	50567	15.00-16.00	1.00	0.010		11.0	95.0	15.0	27.0	18.0
		and microfracture controlled causing a brecciated	50568	16.00-17.00	1.00	0.005		10.0	67.0	15.0	27.0	18.0
		appearance with less pervasive. Local moderate patchy	50569	17.00-18.00	1.00	0.010		11.0	29.0	10.0	29.0	16.0
		pervasive silica and in quartz/calcite (+/- epidote)	50570	18.00-19.00	1.00	0.005		11.0	73.0	15.0	34.0	18.0
		stockwork, weak to moderate stockwork epidote with	50571	19.00-20.00	1.00	0.005		15.0	62.0	10.0	38.0	20.0
		calcite, moderate light green pervasive sericite,	50573	20.00-21.00	1.00	0.035		26.0	56.0		35.0	12.0
		moderate pervasive chlorite. Lower contact=broken	50574	21.00-22.00	1.00	2.750		32.0	312.0	5.0	44.0	22.0
		core. Hematite stockwork zone.	50575	22.00-23.00	1.00	0.300		36.0	212.0	10.0	66.0	22.0
	<0.32-5.00>	Broken Core Moderate angular broken core with weak limonite fracture fill and calcite leaching. Fractures usually at low angles to core axis.										
	<1.00-13.30>	QUARTZ-CALCITE VEINS Moderate EP stockwork Moderate QC stockwork Moderate irregular calcite/quartz/epidote veins, to 15cm., average 1cm., 5 per meter.										
	<16.00-23.50>	?? MT disseminated MINERALIZATION- trace disseminated pyrite.										
	<16.00-23.50>	Moderate SI pervasive Strong HE pervasive Weak H-zone? moderate pervasive and patchy silica, strong pervasive hematite. MINERALIZATION- trace disseminated pyrite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<21.20-23.50>		Broken Core Moderate broken core, trace fine grained to medium grained muddy gouge, weak limonite fracture fill. Fractures generally at high angle to core axis.										
23.50	63.12	Hornblende Feldspar xtalline Fine grained, green, massive, broken Frs=15/m :Vns =20/m Weak SI patches Moderate CL wispy Weak MS pervasive Moderate KS pervasive Trace HE wispy Medium green to medium green gray to medium green fine grained HFxl with 25% light to dark green to light gray to cream subhedral hornblende laths and needles to 1.5mm. Rare to absent sub to euhedral light gray biotite phenos. Not enough to warrant BHFl very fine grained to aphanitic matrix. ALTERATION- moderate locally weak wispy and pervasive chlorite, moderate pervasive K-spar? weak to moderate irregular calcite patches and fracture fill, weak wispy hematite near upper contact; patchy silica near lower contact. STRUCTURE- weak broken core throughout with weak limonite fracture fill.	50576	23.00-24.00	1.00	0.080		17.0	76.0	5.0	52.0	14.0
			50577	24.00-25.00	1.00	0.005		17.0	69.0	25.0	70.0	18.0
			50578	25.00-26.00	1.00	0.005		13.0	39.0	20.0	71.0	16.0
			50579	26.00-27.00	1.00	0.205		13.0	100.0	20.0	67.0	22.0
			50580	27.00-28.00	1.00	0.005		11.0	101.0	5.0	48.0	12.0
			50581	28.00-29.50	1.50	0.005		12.0	61.0	5.0	37.0	14.0
			50582	29.50-31.00	1.50	0.020		13.0	77.0	10.0	54.0	14.0
			50583	31.00-32.50	1.50	0.140	0.40	23.0	135.0	15.0	70.0	14.0
			50584	32.50-34.00	1.50	0.010		17.0	202.0	15.0	57.0	14.0
			50585	34.00-35.50	1.50	0.010	0.40	15.0	129.0	15.0	59.0	18.0
			50586	35.50-37.00	1.50	0.005		18.0	87.0	25.0	59.0	16.0
			50587	37.00-38.50	1.50	0.005	0.40	10.0	9.0	20.0	56.0	16.0
			50588	38.50-40.00	1.50	0.005	0.20	17.0	33.0	30.0	77.0	32.0
			50589	40.00-41.50	1.50	0.005	0.20	11.0	81.0	125.0	67.0	62.0
			50590	41.50-43.00	1.50	0.005	0.20	10.0	62.0	30.0	76.0	24.0
			50591	43.00-44.50	1.50	0.005	0.40	13.0	77.0	15.0	107.0	34.0
			50592	44.50-46.00	1.50	0.005	0.60	11.0	81.0	10.0	93.0	24.0
			50593	46.00-47.50	1.50	0.025		12.0	44.0	15.0	93.0	20.0
			50594	47.50-49.00	1.50	0.010	0.40	13.0	42.0	20.0	92.0	22.0
			50595	49.00-50.50	1.50	0.005		11.0	41.0	20.0	81.0	22.0
<23.50-29.50>		Weak HE wispy Weak to moderate microfracture controlled with less wispy hematite.										
<24.50-26.80>		Broken Core Moderate angular broken core; moderate limonite fracture fill generally at high angle to core axis.										
<33.00-37.00>		?? MT disseminated .2% arsenopyrite - disseminated MINERALIZATION- trace disseminated arsenopyrite, pyrite.										
<33.00-37.00>		Weak SI pervasive Weak pervasive silica, weak bleaching and calcite leaching. MINERALIZATION- trace disseminated arsenopyrite, pyrite.										
<37.35-38.55>		Hornblende feldspar breccia Brecciated contact 30°										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Possibly breccia dyke with 25% subangular fine grained HFxl? fragments to 1cm. within aphanitic matrix. Roughly oriented at 30 degrees.										
<37.90-39.15>		Chlorite Streaming sheeting 15° Strong CL SHEETED Strong irregular braided chlorite. Irregular orientation at 15 degrees.										
<43.30-45.00>		Weak SI patches Weak patchy pervasive silica.										
<45.30-50.70>		Chlorite Streaming Broken Strong CL SHEETED Moderate irregular chlorite streaming, generally at high angle to core axis overprinted by moderate broken core with moderate limonite fracture fill.										
<50.70-63.12>		VEINED & DISSEMINATED SULPHIDE Moderate SI selvages Strong CL pervasive Moderate PY stringer Strong pervasive chlorite cross cut by highly irregular fine grained to very fine grained pyrite stringers generally with chlorite to 1cm., usually 3mm. patchy silica common as selvages chlorite increasing towards lower contact at H-zone.	50596 50597 50598 50599 50600 50601 50602 50603 50604	50.50-52.00 52.00-53.50 53.50-55.00 55.00-56.50 56.50-58.00 58.00-59.00 59.00-60.00 60.00-61.00 61.00-62.00	1.50 1.50 1.50 1.50 1.50 1.00 1.00 1.00 1.00	0.010 0.005 0.005 0.010 0.005 0.005 0.005 0.005 0.005	0.40 0.20 0.20 0.20 0.20 0.20	18.0 11.0 10.0 12.0 17.0 13.0 22.0 15.0 13.0	90.0 115.0 106.0 77.0 117.0 54.0 67.0 113.0 81.0	85.0 35.0 30.0 20.0 25.0 20.0 30.0 30.0 40.0	59.0 55.0 44.0 34.0 44.0 64.0 58.0 52.0 46.0	20.0 18.0 18.0 14.0 16.0 16.0 16.0 18.0 18.0
63.12	67.00	Semi-massive hematite Fine grained, dark red, patchy vein 50° Frs=8/m Moderate SI patches Strong CL pervasive Intense MT massive Intense HE massive Moderate SE disseminated Strong PY patches Strong H-zone with massive hematite and magnetite with less sulphides as irregular pods at veins at about 50 degrees, within strongly chloritized HFxl. Likely pervasive specularite also. ALTERATION- moderate patchy silica, strong pervasive chlorite. MINERALIZATION- 3% coarse grained arsenopyrite as irregular patches, 10% pyrite as coarse grained	50605 50606 50607 50608 50609	62.00-63.12 63.12-64.00 64.00-65.00 65.00-66.00 66.00-67.00	1.12 0.88 1.00 1.00 1.00	0.005 12.840 0.250 14.110 1.470	 12.40 3.20 6.40 2.20	17.0 632.0 108.0 3396.0 494.0	75.0 8791.0 951.0 2093.0 1385.0	70.0 1130.0 225.0 670.0	55.0 134.0 54.0 87.0 92.0	18.0 16.0 8.0 20.0 12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		granular patches ith less stringers, trace wispy disseminated calcopyrite.										
		<63.12-67.00> Trace MT patches .2% chalcopyrite - disseminated 3 % arsenopyrite - coarse grained MINERALIZATION- 3% coarse graind arsenopyrite as irregular patches, 10% pyrite as coarse grained granular patches with less stringers, trace wispy disseminated calcopyrite.										
		<63.12-63.67>MINERALIZATION- 20% pyrite, 1% arsenopyrite, trace calcopyrite.										
		<63.12-63.67> massive hematite vein 50° Massive hematite/magnetite/specularite with 20% coarse grained pyrite at 50 degrees. MINERALIZATION- 20% pyrite, 1% arsenopyrite, trace calcopyrite.										
		<64.00-64.80> calcite vein microveins 50° :Vns =5/m Bladed butterfly calcite indicative of boiling within 1cm veins at 50 degrees often with pyrite.										
		<65.25-66.35> Weak MT patches 4 % arsenopyrite - wispy MINERALIZATION- 20% coarse grained pyrite as granular patches, 4% wispy arsenopyrite.										
		<65.25-66.35> massive hematite Massive hematite/magnetite/specularite. MINERALIZATION- 20% coarse grained pyrite as granular patches, 4% wispy arsenopyrite.										
		<66.75-66.85> 1 % chalcopyrite - disseminated MINERALIZATION- 1.5% disseminated calcopyrite.										
		<66.75-66.85>MINERALIZATION- 1.5% disseminated calcopyrite.										
67.00	87.90	Biotite Hbl Fdsp xtalline	50610	67.00-68.00	1.00	0.010		22.0	42.0	40.0	50.0	18.0
		Fine grained, green, crystalline, mottled	50612	68.00-69.00	1.00	0.005		14.0	34.0	115.0	51.0	14.0
		foliated 10°	50613	69.00-70.00	1.00	0.005		13.0	42.0	115.0	45.0	18.0
		Trace SI patches	50614	70.00-71.50	1.50	0.005	0.20	17.0	30.0	45.0	87.0	20.0
		Strong CL pervasive	50615	71.50-73.00	1.50	0.005	0.40	19.0	61.0	30.0	145.0	38.0
		Weak MS phenocrystal replacement	50616	73.00-74.50	1.50	0.005		18.0	30.0	170.0	124.0	40.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Trace PY disseminated	50617	74.50-76.00	1.50	0.005		14.0	43.0	140.0	87.0	26.0
	Moderate-CV--stockwork	50618	76.00-77.50	1.50	0.005		12.0	36.0	125.0	91.0	34.0
	Medium to dark green to gray green BHFl or BHFl/HFxl	50619	77.50-79.00	1.50	0.005	0.20	36.0	26.0	55.0	116.0	30.0
	transition zone with 2 to 3% subhedral rarely euhedral	50620	79.00-80.50	1.50	0.775	0.60	268.0	148.0	320.0	80.0	30.0
	biotite or augite phenos to 3mm., 25% light to dark	50621	80.50-82.00	1.50	0.005		18.0	22.0	25.0	33.0	24.0
	green subhedral hornblende phenos to 1.5mm. phenos	50622	82.00-83.00	1.00	0.005		10.0	29.0	25.0	48.0	18.0
	often have taxitic texture which may be indicative of	50623	83.00-84.00	1.00	1.450	3.60	68.0	1264.0	85.0	115.0	30.0
	a cryptic fragmental, very fine grained to aphanitic	50624	84.00-85.00	1.00	1.160	13.60	93.0	5705.0	210.0	178.0	18.0
	matrix. ALTERATION- strong chlorite as wispy	50625	85.00-86.00	1.00	0.200	2.40	46.0	1539.0	50.0	87.0	18.0
	disseminations, pervasive and irregular braided fluid	50626	86.00-87.50	1.50	0.005	0.60	19.0	222.0	15.0	65.0	24.0
	streaming, generally at low angle to core axis, about										
	10 degrees, moderate irregular and stockwork,										
	generally 2 to 3mm. wide fracture fill, weak sericite										
	as pheno replacement and light green pervasive.										
<71.00-74.00>	Moderate MT wispy										
	MINERALIZATION- 3% fine grained to medium grained										
	wispy pyrite with less dissemination, trace wispy										
	hematite.										
<71.00-74.00>	Chlorite Streaming										
	Mottled										
	Weak SI patches										
	Strong CL SHEETED										
	Strong irregular braided chlorite streaming possibly										
	overprinted at fragmental unit, weak patchy silica.										
	MINERALIZATION- 3% fine grained to medium grained										
	wispy pyrite with less dissemination, trace wispy										
	hematite.										
<75.00-79.80>	Hornblende Feldspar xtalline										
	Fine grained, dark green										
	HFxl? no observable biotite phenos. May possibly be										
	masked by strong chlorite alteration.										
<75.50-79.80>	Chlorite Streaming										
	sheeting 10°										
	Strong CL SHEETED										
	Strong braided chlorite streaming/sheeting at 10										
	degrees.										
<82.50-83.30>	Broken Core										
	Weak angular broken core with weak limonite fracture										
	fill.										
<83.50-87.90>	Moderate MT fine grained										
	.2% arsenopyrite disseminated										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- trace wispy hematite, 3% fine grained to medium grained granular pyrite, trace disseminated arsenopyrite, trace calcopyrite within quartz/calcite veins.										
<83.50-87.90>		VEINED & DISSEMINATED SULPHIDE Moderate SI selvages Intense CL pervasive Trace HE wispy Moderate PY wispy Weak S-zone? strong pervasive dark green to black pervasive chlorite, moderate silica as irregular patches and veins to 1cm. with calcite. MINERALIZATION- trace wispy hematite, 3% fine grained to medium grained granular pyrite, trace disseminated arsenopyrite, trace calcopyrite within quartz/calcite veins.										
87.90	111.09	Biotite Hbl Fdsp xtalline	50627	87.50-89.00	1.50	0.005	0.60	16.0	212.0	15.0	50.0	24.0
		Fine grained, greenish-gray, crystalline, massive	50628	89.00-90.50	1.50	0.005	0.40	13.0	139.0	10.0	44.0	18.0
		Frs=12/m :Vns =20/m	50629	90.50-92.00	1.50	0.010	0.40	16.0	165.0	20.0	47.0	26.0
		Weak SI pervasive	50630	92.00-93.50	1.50	0.005	0.40	15.0	90.0	30.0	47.0	22.0
		Weak CL wispy	50631	93.50-95.00	1.50	0.005	0.20	12.0	89.0	40.0	48.0	18.0
		Weak MS pervasive	50632	95.00-96.50	1.50	0.005	0.80	12.0	103.0	55.0	50.0	24.0
		Strong KS pervasive	50633	96.50-98.00	1.50	0.005	0.60	16.0	125.0	60.0	49.0	18.0
		Moderate QC stockwork	50634	98.00-99.50	1.50	0.005	0.60	16.0	137.0	35.0	63.0	20.0
		Light to medium green gray to gray BHFl with 10%	50635	99.50-101.00	1.50	0.005	0.60	18.0	210.0	20.0	73.0	26.0
		euhedral platy biotite phenos to 3mm., 20% subhedral	50636	101.00-102.50	1.50	0.005	0.60	15.0	201.0	10.0	111.0	18.0
		light gray hornblende laths and needles to 1.5mm.,	50637	102.50-104.00	1.50	0.005	0.80	16.0	198.0	15.0	109.0	22.0
		very fine grained to aphanitic matrix. ALTERATION-	50638	104.00-105.50	1.50	0.005	1.00	21.0	244.0	50.0	102.0	24.0
		weak wispy chlorite, moderate pervasive silica, likely	50639	105.50-107.00	1.50	0.010	0.60	29.0	137.0	35.0	78.0	24.0
		strong pervasive K-spar, moderate pervasive sercite,	50640	107.00-108.50	1.50	0.005	0.60	11.0	87.0	35.0	90.0	42.0
		moderate irregular quartz/calcite patches and	50641	108.50-110.00	1.50	0.010	0.80	11.0	121.0	35.0	303.0	184.0
		stockwork.	50642	110.00-111.00	1.00	0.070	1.00	19.0	141.0	180.0	238.0	110.0
<89.60-89.70>		Hornblende Feldspar xtalline contact 50° Possible 1cm. HFxl breccia dykelette cross cutting BHFl, subtle light green colour difference.										
<95.60-98.30>		Broken Core Bleached, broken Moderate CL fracture fill Weak CV stockwork Moderate to strong angular to subangular broken core, chloritic/limonitic annealed fractures and weak bleaching, moderate limonite fracture fill and trace										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		gouge, local calcite butterfly blading, intensely moderate shear zone or fault zone.										
<100.90-103.90>		Moderate MT stringer MINERALIZATION- 3% fine grained to medium grained irregular stringer pyrite with dark green chlorite, commonly with silicified selvages. Irregular orientation.										
<100.90-103.90>		VEINED & DISSEMINATED SULPHIDE Weak SI selvages Weak CL stringer MINERALIZATION- 3% fine grained to medium grained irregular stringer pyrite with dark green chlorite, commonly with silicified selvages. Irregular orientation.										
<103.90-105.50>		Intense MT stringer MINERALIZATION- 5% pyrite as irregular oriented stringers to 5mm., generally with chlorite, often with silica +/- K-spar selvages to 1cm.										
<103.90-105.50>		VEINED & DISSEMINATED SULPHIDE Moderate SI selvages Weak CL stringer MINERALIZATION- 5% pyrite asirregular oriented stringers to 5mm., generally with chlorite, often with silica +/- K-spar selvages to 1cm.										
<105.50-106.30>		Chlorite Streaming sheeting 10° Moderate CL SHEETED Moderate chlorite streaming/braided sheeting, irregular at 10 degrees to core axis causes brecciated appearance.										
<106.30-111.09>		Weak MT patches MINERALIZATION- 2% pyrite as irregular medium grained to fine grained patches with chlorite and traces of hematite with calcite.										
<106.30-111.09>		VEINED & DISSEMINATED SULPHIDE Moderate CL wispy Trace HE wispy Moderate wispy chlorite, locally braided. MINERALIZATION- 2% pyrite as irregular medium grained to fine grained patches with chlorite and traces of										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		hematite with calcite.										
111.09	116.35	Hornblende Feldspar xtalline	50643	111.00-112.00	1.00	0.005	0.60	11.0	124.0	55.0	549.0	68.0
		Fine grained, greenish-gray, mottled	50644	112.00-113.00	1.00	0.040	0.80	10.0	81.0	35.0	301.0	64.0
		Frs=10/m :Vns =40/m	50645	113.00-114.00	1.00	0.120	1.40	25.0	226.0	145.0	189.0	110.0
		Weak SI pervasive	50646	114.00-115.00	1.00	0.310	3.60	21.0	620.0	55.0	125.0	80.0
		Moderate CL pervasive	50647	115.00-116.00	1.00	0.005	0.60	16.0	112.0	55.0	68.0	26.0
		Moderate CB patches										
		Moderate MS pervasive										
		Moderate KS pervasive										
		Trace HE wispy										
		Medium to dark green gray to gray green BHFl/HFxl transition zone with rare to 1% subhedral platy biotites to 2.5mm., 20% subhedral light gray commonly cryptic hornblende needles to 1.5mm. fine grained to aphantic matrix. ALTERATION- moderate to strong pervasive and wispy chlorite, moderate patchy pervasive silica likely strong pervasive K-spar, moderate pervasive sericite. Host to weak S-zone, lower contact=indistinct.										
		<111.20-113.35> ?? MT patches										
		MINERALIZATION- 6% patchy pyrite, trace calcopyrite.										
		<111.20-113.35> Hematite chlorite calcite vein										
		Moderate SI pervasive										
		Strong CL pervasive										
		Strong CB patches										
		Weak HE wispy										
		Irregular calcite/hematite +/- chlorite +/- pyrite patches, often to 8cm. moderate wispy veined hematite, strong pervasive chlorite, moderate pervasive silica. Weak S-zone. MINERALIZATION- 6% patchy pyrite, trace calcopyrite.										
		<113.35-113.60> Chlorite Streaming										
		sheeting 40°										
		Strong CL SHEETED										
		Strong chlorite sheeting at 40 degrees.										
		<114.80-114.95> Moderate MT patches										
		MINERALIZATION- 30% fine grained pyrite patch with 1.5% disseminated calcopyrite. Intense chlorite selvage.										
		<114.80-114.95> VEINED & DISSEMINATED SULPHIDE										
		Intense CL selvages										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- 30% fine grained pyrite patch with 1.5% disseminated calcopyrite, intense chlorite selvage.										
116.35	121.80	volcaniclastics	50648	116.00-117.00	1.00	0.005	0.40	20.0	173.0	15.0	130.0	22.0
		Grayish-green, auto brecciated	50649	117.00-118.00	1.00	0.005	0.20	27.0	205.0		119.0	24.0
		Frs=12/m :Vns =14/m	50650	118.00-119.00	1.00	0.005		37.0	145.0	15.0	105.0	24.0
		Strong CL pervasive	50651	119.00-120.00	1.00	0.005		37.0	131.0	15.0	104.0	22.0
		Weak MS patches	50652	120.00-121.00	1.00	0.005		45.0	178.0	20.0	103.0	22.0
		Weak CV patches										
		Dark gray green probable autobrecciated fragmental rare subrounded fragments with differential grain size within HFxl matrix. Fragments uncommonly with biotite phenos to 3mm. May be alteration phenomenon, but unlikely. ALTERATION- strong pervasive dark green chlorite, weak patchy sericite, weak patchy and stockworkcalcite veins. Lower contact=indistinct. Fragments up to 3cm. MINERALIZATION- 2% fine grained disseminated pyrite, trace possible arsenopyrite.										
<116.35-121.80>		Weak MT disseminated										
		MINERALIZATION- 2% fine grained disseminated pyrite, trace possible arsenopyrite.										
121.80	139.00	Hornblende Feldspar xtalline	50653	121.00-122.00	1.00	0.005	0.20	38.0	143.0	35.0	107.0	20.0
		Fine grained, grayish-green, crystalline	50654	122.00-123.00	1.00	0.005		38.0	144.0	35.0	106.0	22.0
		foliated 30°	50655	123.00-124.00	1.00	0.025	0.40	37.0	133.0	95.0	95.0	24.0
		Frs=8/m :Vns =15/m	50656	124.00-125.00	1.00	0.015	0.60	17.0	197.0	45.0	73.0	20.0
		Moderate SI pervasive	50657	125.00-126.00	1.00	0.145	0.40	37.0	176.0	255.0	60.0	20.0
		Strong CL pervasive	50658	126.00-127.00	1.00	0.495	2.60	320.0	945.0	5355.0	83.0	18.0
		Moderate MS pervasive	50659	127.00-128.00	1.00	0.060	0.80	46.0	219.0	630.0	38.0	16.0
		Moderate MT patches	50660	128.00-129.00	1.00	2.910	2.20	550.0	221.0	2645.0	101.0	46.0
		Trace HE wispy	50661	129.00-130.00	1.00	14.630	5.20	2060.0	739.0		139.0	86.0
		Medium to dark green to gray green HFxl, local fair	50662	130.00-131.00	1.00	1.550	1.40	1350.0	368.0	2315.0	154.0	22.0
		salt and pepper texture, with 25% light gray to tan	50663	131.00-132.00	1.00	1.641	12.00	2290.0	1615.0		178.0	26.0
		subhedral hornblende laths and needles to 2mm. very	50664	132.00-133.00	1.00	1.810	2.00	820.0	585.0	3955.0	101.0	28.0
		fine grained to aphanitic matrix. ALTERATION- weak to	50665	133.00-134.00	1.00	0.425	1.40	320.0	477.0	640.0	92.0	26.0
		strong pervasive silica, moderate pervasive and wispy	50666	134.00-135.00	1.00	0.740	0.60	340.0	214.0	995.0	68.0	24.0
		chlorite, strong pervasive K-spar, moderate patchy	50667	135.00-136.00	1.00	2.800	0.80	390.0	118.0	3875.0	66.0	32.0
		magnetite, weak wispy hematite. Host to moderate	50668	136.00-137.00	1.00	1.410	0.40	240.0	113.0	1635.0	66.0	32.0
		S-zone.	50669	137.00-138.00	1.00	0.030		33.0	95.0	105.0	62.0	14.0
<125.60-128.10>		Moderate MT patches										
		Intense PR disseminated										
		.3% arsenopyrite - patches										
		5 % pyrrhotite - disseminated										
		MINERALIZATION- 0.3% patchy fine grained arsenopyrite,										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		5% fine grained disseminated pyrrhotite, 3% patchy medium grained pyrite.										
		<125.60-128.10> VEINED & DISSEMINATED SULPHIDE foliated 30° Strong SI pervasive Strong pervasive silica, foliated at 30 degrees. MINERALIZATION- 0.3% patchy fine grained arsenopyrite, 5% fine grained disseminated pyrrhotite, 3% patchy medium grained pyrite.										
		<129.08-132.10> Weak MT vein MINERALIZATION- 2% pyrite as veins with pyrite to 9cm. with less dissemination and wispy dissemination. 5% coarse grained granular patches and veins to 9cm. generally at 50 degrees, trace disseminated calcopyrite.										
		<129.08-132.10> VEINED & DISSEMINATED SULPHIDE macroveins 55° Strong CL pervasive Weak CB patches Moderate MT pervasive Weak HE wispy S-zone, moderate pervasive magnetite, trace wispy hematite generally in calcite patches. MINERALIZATION- 2% pyrite as veins with pyrite to 9cm. with less dissemination and wispy dissemination. 5% coarse grained granular patches and veins to 9cm, generally at 50 degrees, trace disseminated calcopyrite.										
		<133.10-137.00> Strong MT stringer .2% chalcopyrite - stringer MINERALIZATION- 4% stringer pyrite, 0.2% stringer calcopyrite.										
		<133.10-137.00> VEINED & DISSEMINATED SULPHIDE :Vns =2/m Moderate SI selvages Moderate CL stringer Pyrite/calcopyrite/chlorite with traces of hematite with 1 to 3cm. silica/K-spar selvages. Irregular orientation, 2 per meter. MINERALIZATION- 4% stringer pyrite, 0.2% stringer calcopyrite										
139.00	171.60	volcaniclastics	50670	138.00-139.50	1.50	0.110		43.0	154.0	255.0	106.0	18.0
		Grayish-green, mottled	50671	139.50-141.00	1.50	0.010		41.0	148.0	65.0	134.0	18.0

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 =15/m	50672	141.00-142.50	1.50	0.005		41.0	110.0	35.0	193.0	18.0
	Strong CL wispy	50673	142.50-144.00	1.50	0.010		40.0	180.0	55.0	171.0	16.0
	Moderate MS pervasive	50674	144.00-145.50	1.50	0.005		36.0	157.0	40.0	126.0	22.0
	Trace PY disseminated	50675	145.50-147.00	1.50	0.005		39.0	123.0	50.0	114.0	20.0
	Weak CV patches	50676	147.00-148.50	1.50	0.010		40.0	106.0	40.0	88.0	18.0
	Medium to dark gray green probable fragmental or	50677	148.50-150.00	1.50	0.005		35.0	120.0	45.0	154.0	18.0
	taxitic textured HFxl/BHFl with indistinct subrounded	50678	150.00-151.50	1.50	0.005		32.0	161.0	40.0	118.0	20.0
	fragments of various grainsizes with local fragments	50679	151.50-153.00	1.50	0.005		40.0	146.0	40.0	138.0	18.0
	of BHfl with 30% weak sub to anhedral platy possible	50680	153.00-154.50	1.50	0.010		41.0	156.0	60.0	137.0	18.0
	biotite phenos. HFxl matrix with aphaniticgroundmass.	50681	154.50-156.00	1.50	0.005		39.0	144.0	45.0	125.0	18.0
	ALTERATION- strong wispy pervasive chlorite,	50682	156.00-157.50	1.50	0.030		41.0	145.0	40.0	119.0	18.0
	graduating to weak towards lower contact, weak to	50683	157.50-159.00	1.50	0.005		37.0	143.0	35.0	130.0	16.0
	moderate olive green to brown green sercite, weak										
	patchy calcite. Graduational lower contact.										
<159.00-171.60>	Gray, mottled, crystalline	50684	159.00-160.50	1.50	0.005		38.0	138.0	40.0	128.0	16.0
	Frs=12/m :Vns =15/m	50686	160.50-162.00	1.50	0.005	0.60	39.0	150.0	40.0	175.0	18.0
	Trace SI pervasive	50687	162.00-163.50	1.50	0.005		40.0	144.0	25.0	158.0	14.0
	Weak CL wispy	50688	163.50-165.00	1.50	0.005		37.0	135.0	55.0	110.0	14.0
	Strong MS pervasive	50689	165.00-166.50	1.50	0.025		37.0	107.0	365.0	67.0	18.0
	Strong KS pervasive	50690	166.50-168.00	1.50	0.090		33.0	189.0	365.0	52.0	20.0
	Trace PY disseminated	50691	168.00-169.50	1.50	0.155		37.0	222.0	135.0	59.0	24.0
	Weak CV stockwork	50692	169.50-170.50	1.00	0.105		41.0	148.0	800.0	63.0	22.0
	Medium gray to green gray probable fragmental;	50693	170.50-171.60	1.10	0.635		33.0	201.0	125.0	63.0	26.0
	unlikely taxitic. Indistinct subrounded irregular										
	fragments of varying grainsizes commonly with milled										
	likely biotite/augite phenos. HFxl matrix with very										
	fine grained to aphanitic groundmass. ALTERATION- weak										
	to absent wispy chlorite, decreasing towards lower										
	contact, trace pervasive silica, moderate to strong										
	pervasive K-spar, moderate to strong pervasive										
	sercite. Lower contact=E.O.H.										
<161.15-162.40>	Broken Core										
	gouge 30°										
	Frs=20/m										
	Weak broken core with gougy slips at 30 degrees to										
	2mm. 2 per meter.										
<171.00-171.35>	gouge 25°										
	Weak broken core with 3mm. fine grained gougy slip at										
	25 degrees to core axis.										
(eoh)											

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-45

PROJECT: Clone	Date Commenced: 22/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-45	Date Completed: 24/07/96		Geotech by: DBL
LENGTH: 222.50	Core Diam: BQTK		

Collar Location

Latitude:	2064.79
Departure:	2037.11
Elevation:	1393.99

S U M M A R Y

0.00-1.52	CASING
1.52-69.00	Biotite Hbl Fdsp xtalline *
69.00-83.00	Biotite Hbl Fdsp xtalline *
83.00-95.80	Biotite Hbl Fdsp xtalline ****
95.80-104.80	volcaniclastics *
104.80-120.00	Hornblende Feldspar xtalline *
120.00-127.30	Hornblende Feldspar xtalline
127.30-133.30	rubbly fault zone
133.30-148.50	volcaniclastics *
148.50-164.99	mudstone *
164.99-185.70	tuff ***
185.70-188.50	Broken Core
188.50-196.40	tuff *
196.40-198.40	mudstone *
198.40-203.00	rubbly fault zone *
203.00-213.00	diorite
213.00-219.73	diorite *
219.73-221.28	rubbly fault zone
221.28-222.50	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	1.52	CASING Casing.										
1.52	69.00	Biotite Hbl Fdsp xtalline	50694	1.52-2.00	0.48	0.005	0.20	12.0	61.0	10.0	53.0	18.0
		Red, mottled, crystalline	50695	2.00-3.00	1.00	0.005		8.0	9.0	5.0	29.0	14.0
		qz-carb veining 80°	50696	3.00-4.00	1.00	0.005		11.0	5.0		34.0	12.0
		Frs=10/m :Vns =80/m	50697	4.00-5.00	1.00	0.005		12.0	18.0	5.0	24.0	10.0
		Moderate SI pervasive	50698	5.00-6.00	1.00	0.005		17.0		10.0	45.0	14.0
		Weak CL wispy	50699	6.00-7.00	1.00	0.005		13.0	14.0	10.0	22.0	10.0
		Weak MS pervasive	50700	7.00-8.00	1.00	0.005		13.0	5.0	5.0	32.0	12.0
		Moderate KS pervasive	50702	8.00-9.00	1.00	0.010		13.0	7.0	25.0	37.0	10.0
		Strong HE pervasive	50703	9.00-10.00	1.00	0.005		10.0	3.0	15.0	47.0	14.0
		Moderate CV microveins	50704	10.00-11.00	1.00	0.005		11.0		5.0	30.0	10.0
		Weak QC microveins	50705	11.00-12.00	1.00	0.005		12.0	20.0	15.0	48.0	16.0
		Medium red to medium green BHFl with 1 to 10% euhedral	50706	12.00-13.00	1.00	0.005	0.20	12.0	6.0	10.0	37.0	16.0
		platy copper coloured biotite phenos to 5mm., 20%	50707	13.00-14.00	1.00	0.005		9.0	44.0		42.0	16.0
		light to dark green to light gray commonly cryptic	50708	14.00-15.00	1.00	0.005		11.0	11.0		28.0	14.0
		subhedral milled hornblende phenos to 1.5mm. very fine	50709	15.00-16.00	1.00	0.005		10.0	8.0	10.0	42.0	14.0
		grained to aphanitic matrix. ALTERATION- strong	50710	16.00-17.00	1.00	0.005		8.0	11.0		29.0	14.0
		pervasive hematite with much less microfracture	50711	17.00-18.00	1.00	0.005		20.0	7.0	5.0	48.0	18.0
		controlled, wispy stockwork and coarse disseminated,	50712	18.00-19.00	1.00	0.005		10.0	22.0	5.0	37.0	20.0
		weak to moderate locally absent pervasive and wispy	50713	19.00-20.00	1.00	0.005		9.0	49.0		44.0	18.0
		chlorite, weak patchy light green sericite, strong to	50714	20.00-21.00	1.00	0.005		11.0	41.0		46.0	22.0
		absent pervasive silica, moderate to weak calcite	50715	21.00-22.00	1.00	0.005	0.40	9.0	107.0		35.0	20.0
		stockwork +/- quartz. Hematite stockwork zone with	50716	22.00-23.00	1.00	0.005	0.80	10.0	435.0	10.0	36.0	18.0
		possible weak H-zones.	50717	23.00-24.00	1.00	0.010	0.20	11.0	127.0	10.0	40.0	20.0
	<1.52-2.74>	Broken Core Strong rubbly to angular broken core. Fractures at high angle to core axis, likely due to surficial weather.										
	<2.74-6.50>	Semi-massive hematite Strong SI pervasive Moderate EP phenocrystal replacement Strong HE pervasive Strong pervasive hematite, moderate pervasive silica, weak patchy light green epidote replacing phenos.										
	<6.50-8.45>	Strong SI pervasive Strong HE pervasive Strong pervasive hematite, strong pervasive silica. Hornblende and biotite phenos bleached white.										
	<12.80-17.40>	Strong pervasive hematite, strong patchy pervasive silica. Mottled appearance, may be due to possible										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	fragmental unit. However, unlikely.										
<17.40-24.18>	Moderate HE wispy Moderate to strong pervasive hematite and microfracture controlled with good solution fronts, causing autobrecciated appearance.										
<18.70-19.10>	rubbly fault zone qz-carb veining 70° Strong angular broken core with 5% gouge, fractures at high angle to core axis, 1cm. quartz/calcite vein at 70 degrees. Likely weak fault zone.										
<24.18-33.10>	Semi-massive hematite Strong SI pervasive Strong HE pervasive Strong pervasive hematite, strong pervasive silica.	50718 50719 50720 50721	24.00-25.00 25.00-26.00 26.00-27.00 27.00-28.00	1.00 1.00 1.00 1.00	0.005 0.010 0.005 0.005	0.20	11.0 10.0 9.0 9.0	110.0 42.0 24.0 19.0	5.0 10.0 10.0 10.0	39.0 43.0 58.0 46.0	18.0 16.0 16.0 16.0
<26.10-32.80>	QUARTZ-CALCITE VEINS qz-carb veining 70°:qz-carb veining 50° :Vns =2/m Moderate EP macroveins Moderate QC macroveins Quartz/calcite/chlorite +/- epidote veins to 12cm., ribboned at high angle to core axis, no sulphides, generally 15mm. wide, 50 and 70 degrees orientations common.	50722 50723 50724 50725	28.00-29.00 29.00-30.00 30.00-31.00 31.00-32.00	1.00 1.00 1.00 1.00	0.005 0.005 0.005 0.005		7.0 8.0 8.0 8.0	10.0 14.0 10.0 18.0	10.0 10.0 5.0	30.0 26.0 26.0 29.0	18.0 14.0 14.0 18.0
<33.10-34.55>	.2% chalcopyrite - disseminated MINERALIZATION- trace disseminated calcopyrite with moderate wispy and disseminated micorfracture controlled hematite and strong pervasive silica, trace malachite and weak limonite fracture fill with weak broken core.	50726 50727	32.00-33.00 33.00-34.00	1.00 1.00	0.240 0.060	0.80 5.20	7.0 11.0	463.0 2065.0		46.0 80.0	20.0 22.0
<33.10-34.55>	VEINED & DISSEMINATED SULPHIDE Broken Strong SI pervasive Moderate HE wispy MINERALIZATION- trace disseminated calcopyrite with moderate wispy and disseminated microfracture controlled hematite and strong pervasive silica, trace malachite and weak limonite fracture fill with weak broken core.										
<34.55-35.15>	QUARTZ-CALCITE VEINS qz-carb veining 70°	50728	34.00-35.00	1.00	0.005	0.40	11.0	264.0	5.0	94.0	24.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong CL vein										
		Strong QC macroveins										
		Series of quartz/calcite veins to 2cm. with strong patchy veined chlorite, oriented at 70 degrees.										
<37.50-39.50>		Weak SI pervasive	50729	35.00-36.00	1.00	0.005		13.0	33.0		114.0	14.0
		Moderate HE wispy	50730	36.00-37.00	1.00	0.005		9.0	19.0		40.0	16.0
		Moderate wispy hematite stockwork, microfracture	50731	37.00-38.00	1.00	0.010		14.0	39.0	5.0	40.0	16.0
		controlled with good solution fronts, weak pervasive	50732	38.00-39.00	1.00	0.015		9.0	65.0		42.0	16.0
		silica,										
<41.00-50.50>		Semi-massive hematite	50733	39.00-40.00	1.00	0.005		9.0	17.0		53.0	16.0
		Strong SI pervasive	50734	40.00-41.00	1.00	0.005		8.0	32.0	5.0	71.0	16.0
		Strong HE pervasive	50735	41.00-42.00	1.00	0.015		9.0	96.0	10.0	92.0	16.0
		Strong to intense pervasive hematite, strong pervasive	50736	42.00-43.00	1.00	0.005		9.0	14.0	15.0	190.0	20.0
		silica. Possible weak H-zone.	50737	43.00-44.00	1.00	0.010		12.0	33.0	10.0	249.0	22.0
<51.95-52.20>		QUARTZ-CALCITE VEINS	50738	44.00-45.00	1.00	0.005		10.0	46.0	10.0	188.0	18.0
		qz-carb veining 70°	50739	45.00-46.00	1.00	0.005		9.0	28.0		122.0	20.0
		Strong CL vein	50740	46.00-47.00	1.00	0.005		9.0	9.0	10.0	116.0	20.0
		15cm. quartz/calcite/chlorite vein at 70 degrees.	50741	47.00-48.00	1.00	0.005		7.0	28.0		48.0	16.0
<52.75-65.70>		Semi-massive hematite	50742	48.00-49.00	1.00	0.005		10.0	5.0		111.0	22.0
		Strong SI pervasive	50743	49.00-50.00	1.00	0.010		13.0	17.0	10.0	314.0	22.0
		Weak MS patches	50744	50.00-51.00	1.00	0.010		9.0	11.0	20.0	685.0	22.0
		Intense HE pervasive	50745	51.00-52.00	1.00	0.005		10.0	36.0	15.0	258.0	20.0
		Strong to intense pervasive hematite, strong patchy	50746	52.00-53.00	1.00	0.140		30.0		10.0	93.0	16.0
		pervasive silica, no observable sulphides, weak local	50747	53.00-54.00	1.00	0.050		15.0	8.0	10.0	59.0	14.0
		patches of light apple green sericite.	50748	54.00-55.00	1.00	0.005		9.0	4.0	5.0	64.0	14.0
<55.50-61.40>		Broken Core	50749	55.00-56.00	1.00	0.035		8.0	140.0		45.0	18.0
		fracturing 10°	50750	56.00-57.00	1.00	0.010		8.0	3.0	20.0	68.0	18.0
		Weak broken core with weak to moderate limonite	50751	57.00-58.00	1.00	0.260		26.0	14.0	5.0	62.0	18.0
		fracture fill, fractures generally at 10 degrees.	50752	58.00-59.00	1.00	0.010		23.0	4.0	10.0	68.0	18.0
<67.75-69.00>		Semi-massive hematite	50753	59.00-60.00	1.00	0.005		13.0	3.0		90.0	18.0
		Strong pervasivehematite, strong pervasive silica.	50754	60.00-61.00	1.00	0.005		12.0	5.0	10.0	86.0	18.0
69.00	83.00	Biotite Hbl Fdsp xtalline	50755	61.00-62.00	1.00	0.005		9.0	12.0	15.0	97.0	16.0
		Redish-green, crystalline	50756	62.00-63.00	1.00	0.005		9.0	6.0		113.0	16.0
		stockwork 70°:foliated 30°	50757	63.00-64.00	1.00	0.005		11.0	23.0	10.0	89.0	14.0
		Frs=8/m :Vns =75/m	50758	64.00-65.00	1.00	0.005		17.0	11.0	5.0	53.0	12.0
		Weak SI patches	50759	65.00-66.00	1.00	0.005		7.0	12.0	5.0	47.0	12.0
		Moderate CL pervasive	50760	66.00-67.00	1.00	0.005		9.0	21.0		60.0	14.0
		Moderate MS patches	50762	67.00-68.00	1.00	0.005		11.0	18.0	40.0	61.0	14.0
		Moderate KS pervasive	50763	68.00-69.00	1.00	0.005		14.0	29.0	15.0	67.0	14.0
		Moderate HE wispy	50764	69.00-70.00	1.00	0.005	0.40	13.0	332.0	10.0	71.0	18.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak hematite stockwork zone, reddish green HFxl with	50765	70.00-71.00	1.00	0.005		8.0	63.0	10.0	188.0	14.0
		weakly taxitic dark green to copper-coloured to cream	50766	71.00-72.00	1.00	0.005		9.0	24.0	10.0	253.0	14.0
		euhedral biotite phenos to 5mm., 20% dark to light	50767	72.00-73.00	1.00	0.020		12.0	18.0	10.0	260.0	12.0
		green to cream hornblende needles to 1.5mm. very fine	50768	73.00-74.00	1.00	0.005		10.0	90.0	10.0	178.0	22.0
		grained to aphanitic matrix. ALTERATION- moderate to	50769	74.00-75.00	1.00	0.010		19.0	13.0	15.0	170.0	16.0
		weak hematite wispy stockwork with less microfracture	50770	75.00-76.00	1.00	0.010		13.0	32.0	5.0	136.0	16.0
		controlled, moderate to strong pervasive chlorite,	50771	76.00-77.00	1.00	0.005		8.0	7.0		67.0	16.0
		moderate pervasive light green sericite patches near	50772	77.00-78.00	1.00	0.010		8.0	11.0		85.0	16.0
		upper contact, weak patchy calcite and stockwork at 70	50773	78.00-79.00	1.00	0.005		12.0			61.0	26.0
		degrees.	50774	79.00-80.00	1.00	0.005		8.0	24.0		43.0	18.0
	<71.00-73.90>	foliated 30°										
		Strong MS patches										
		Strong patchy light apple green sercite; usually										
		bleached phenocrysts cream, foliation common at 30										
		degrees.										
	<74.00-78.00>	Moderate SI patches										
		Moderate HE wispy										
		Moderate wispy hematite, moderate to weak patchy										
		silica, irregular orientation.										
	<74.60-74.80>	foliated 50°										
		Hematite/black chlorite foliation at 50 degrees.										
	<82.65-82.80>	Weak MT disseminated	50775	80.00-81.50	1.50	0.005		8.0	46.0		46.0	20.0
		MINERALIZATION- 2% fine grained disseminated pyrite										
		with moderate patchy hematite.										
	<82.65-82.80>	VEINED & DISSEMINATED SULPHIDE										
		Moderate HE patches										
		MINERALIZATION- 2% fine grained disseminated pyrite										
		with moderate patchy hematite.										
83.00	95.80	Biotite Hbl Fdsp xtalline	50776	81.50-83.00	1.50	0.005		7.0	7.0		48.0	18.0
		Fine grained, green, crystalline, massive	50777	83.00-84.50	1.50	0.035		41.0	81.0	35.0	60.0	18.0
		cleavage, foliation 70°	50778	84.50-86.00	1.50	0.005		15.0	90.0	10.0	38.0	16.0
		Frs=15/m :Vns =20/m	50779	86.00-87.50	1.50	0.010	0.20	13.0	98.0	10.0	48.0	52.0
		Trace SI patches	50780	87.50-89.00	1.50	0.010	0.20	11.0	85.0	25.0	41.0	26.0
		Moderate CL pervasive	50781	89.00-90.50	1.50	0.015	0.20	15.0	63.0	15.0	46.0	24.0
		Weak MS pervasive	50782	90.50-92.00	1.50	0.095	0.40	15.0	76.0	10.0	41.0	22.0
		Weak KS pervasive	50783	92.00-93.50	1.50	0.045		7.0	23.0		73.0	10.0
		Trace HE wispy	50784	93.50-95.00	1.50	0.015		8.0	58.0	5.0	108.0	16.0
		Weak PY disseminated										
		Strong CV stockwork										
		Medium green massive BHFl with 3 to 10% light gray										
		platy biotite phenos to 3.5mm., 25% light to dark										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	green to light gray subhedral hornblende phenos to 2mm. very fine grained to aphanitic matrix. ALTERATION- moderate to strong wispy and pervasive chlorite, weak light green sericite, weak to moderate pervasive K-spar. Strong calcite stockwork at 70 degrees, weak local wispy hematite, weak to moderate local patchy silica.										
<84.20-84.25>	MINERALIZATION- 2% pyrite.										
<84.20-84.25>	sulphide-hematite vein vein 40° 1cm. pyrite/hematite vein at 40 degrees. MINERALIZATION- 2% pyrite.										
<84.50-87.20>	Moderate MT disseminated MINERALIZATION- 3% fine grained to medium grained disseminated pyrite.										
<84.50-87.20>	VEINED & DISSEMINATED SULPHIDE MINERALIZATION- 3% fine grained to medium grained disseminated pyrite.										
<88.80-88.95>	Trace MT patches MINERALIZATION- 15% pyrite as irregular fine grained patches with chlorite, moderate pervasive silica.										
<88.80-88.95>	VEINED & DISSEMINATED SULPHIDE Moderate SI pervasive MINERALIZATION- 15% pyrite as irregular fine grained patches with chlorite, moderate pervasive silica.										
<89.90-91.65>	Intense MT patches .2% chalcopyrite - disseminated MINERALIZATION- 5% pyrite as fine grained to medium grained granular patches with trace calcopyrite as disseminations and within quartz/calcite veins, moderate pervasive silica.										
<89.95-91.65>	VEINED & DISSEMINATED SULPHIDE Moderate SI pervasive Weak S-zone? MINERALIZATION- 5% pyrite as fine grained to medium grained granular patches with trace calcopyrite as disseminations and within quartz/calcite veins, moderate pervasive silica.										
<94.00-95.80>	Chlorite Streaming										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		sheeting 45°										
		Strong CL SHEETED										
		Moderate braided chlorite streaming and sheeting, irregular at 45 degrees.										
95.80	104.80	volcaniclastics	50785	95.00-96.00	1.00	0.035	0.40	6.0	39.0		58.0	20.0
		Green, mottled, crystalline	50786	96.00-97.00	1.00	0.080		12.0	67.0		102.0	6.0
		Frs=8/m	50787	97.00-98.00	1.00	0.805	0.40	21.0	167.0	25.0	107.0	6.0
		Trace SI patches	50788	98.00-99.00	1.00	0.120	0.40	40.0	171.0	45.0	93.0	14.0
		Moderate CL pervasive	50789	99.00-100.00	1.00	0.040	1.40	33.0	297.0	70.0	91.0	10.0
		Moderate MS pervasive	50790	100.00-101.50	1.50	0.030	0.80	30.0	273.0	95.0	77.0	12.0
		Moderate KS pervasive	50791	101.50-103.00	1.50	0.040	0.80	25.0	282.0	80.0	66.0	12.0
		Trace HE wispy	50792	103.00-104.50	1.50	0.045	1.00	36.0	261.0	135.0	102.0	18.0
		Weak PY disseminated										
		Moderate CV stockwork										
		Medium green to gray green probable fragmental with rare irregular subrounded fragments, otherwise taxitic appearance. Wide variation in grain size of probable homolithic fragments from fine grained with biotite/augite? phenos to 3mm., HFxl matrix with aphanitic to very fine grained groundmass. ALTERATION- moderate pervasive sericite, K-spar, chlorite, weak to moderate wispy hematite near upper contact, otherwise absent.										
<95.80-97.00>		foliated 50°										
		Moderate CL wispy										
		Moderate HE wispy										
		Moderate wispy hematite, with moderate chlorite, foliated at 50 degrees. NOTE: near upper contact.										
<97.80-97.85>		sulphide-hematite vein										
		vein 70°										
		1.5cm. irregular at 70 degrees pyrite/hematite vein, pyrite cubes to 8mm.										
<98.30-99.90>		Weak MT disseminated										
		MINERALIZATION- 2% fine grained disseminated pyrite.										
<98.30-99.90>		MINERALIZATION- 2% fine grained disseminated pyrite.										
104.80	120.00	Hornblende Feldspar xtalline	50793	104.50-106.00	1.50	0.030	0.80	44.0	173.0	165.0	260.0	14.0
		Fine grained, greenish-gray, massive	50794	106.00-107.50	1.50	0.015		44.0	180.0	60.0	135.0	12.0
		Frs=12/m :Vns =21/m	50795	107.50-109.00	1.50	0.020		47.0	150.0	70.0	70.0	16.0
		Weak CL pervasive	50796	109.00-110.50	1.50	0.015		44.0	157.0	50.0	57.0	12.0
		Moderate MS pervasive	50797	110.50-112.00	1.50	0.200	0.40	39.0	257.0	140.0	389.0	14.0
		Moderate KS pervasive	50798	112.00-113.50	1.50	0.030	0.40	33.0	180.0	185.0	50.0	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	50799	113.50-115.00	1.50	1.100	1.60	168.0	377.0	1310.0	115.0	24.0
		Moderate CV - stockwork	50800	115.00-116.50	1.50	0.030		38.0	293.0	65.0	94.0	18.0
		Medium green gray fairly homogenous massive HFxl with	50801	116.50-118.00	1.50	0.040		36.0	216.0	65.0	82.0	20.0
		20% light green sub to anhedral hornblende phenos to	50802	118.00-119.50	1.50	0.035	0.20	20.0	127.0	45.0	62.0	22.0
		1mm. No observable biotite phenos very fine grained										
		matrix. ALTERATION- weak to moderate pervasive and										
		fracture fill chlorite, moderate pervasive sercite,										
		K-spar, weak to moderate patchy calcite.										
		<104.80-107.10> Broken Core										
		Weak broken core with irregular angles, weak to absent										
		limonite fracture fill.										
		<114.50-115.60> ?? MT SHEETED										
		MINERALIZATION- 6% fine grained pyrite as sheting with										
		chlorite at 30 degrees, or as disseminated and										
		granular patches.										
		<114.50-115.60> VEINED & DISSEMINATED SULPHIDE										
		sheeting 30°										
		MINERALIZATION- 6% fine grained pyrite as sheeting										
		with chlorite at 30 degrees, or as disseminated and										
		granular patches.										
		<116.18-116.40> calcite vein										
		cleavage, foliation 90°										
		Medium brown chlorite? vein unknown brown mineral with										
		calcite/chlorite at 90 degrees.										
		<118.60-120.00> Chlorite Streaming										
		sheeting 70°										
		Intense CL SHEETED										
		Moderate to weak braided chlorite streaming at 70										
		degrees.										
120.00	127.30	Hornblende Feldspar xtalline	50803	119.50-120.70	1.20	0.025	0.20	16.0	122.0	25.0	60.0	30.0
		Fine grained, gray, crystalline	50804	120.70-122.00	1.30	0.020	0.40	10.0	91.0	20.0	78.0	22.0
		Frs=17/m :Vns =12/m	50805	122.00-123.50	1.50	0.020	0.40	11.0	52.0	35.0	61.0	24.0
		Strong SI pervasive	50806	123.50-125.00	1.50	0.035	0.60	16.0	119.0	40.0	51.0	24.0
		Weak MS pervasive	50807	125.00-126.50	1.50	0.015	0.40	14.0	92.0	35.0	60.0	22.0
		Strong KS pervasive										
		Trace PY disseminated										
		Moderate CV microveins										
		Moderate QC microveins										
		Medium gray HFxl with 20% light gray subhedral										
		hornblende needles to 2mm., aphanitic groundmass.										
		ALTERATION- strong pervasive silica, K-spar, weak										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		pervasive sericite, weak to moderate broken core throughout, silica/K-spar/sericite zone.										
		<126.65-126.80> Broken Core Strong angular broken core, 1% fine grained gouge. Inconsistent fracture orientation, likely weak fault splay.										
127.30	133.30	rubbly fault zone Fine grained, gray, crystalline gouge 15°:gouge 90° :Vns =10/m Strong SI pervasive Weak MS pervasive Strong KS pervasive Weak CV microveins Weak QC microveins Moderate to rubbled gougy broken core within HFxl. D.A.P.- 120 to 127.3m. gougy fractures common at 15 degrees, uncommon at 90 degrees.	50808 50809 50810 50811	126.50-128.00 128.00-129.50 129.50-131.00 131.00-132.50	1.50 1.50 1.50 1.50	0.005 0.010 0.005 0.015	0.20	12.0 27.0 29.0 37.0	19.0 88.0 89.0 130.0	10.0 25.0 25.0 30.0	60.0 66.0 73.0 65.0	36.0 16.0 12.0 14.0
133.30	148.50	volcaniclastics Greenish-gray, mottled, crystalline foliated 40°:contact 90° Frs=10/m :Vns =12/m Weak SI pervasive Weak CL pervasive Strong MS pervasive Strong KS pervasive Trace PY disseminated Weak QC stockwork Medium gray to green gray fragmental unit with varying homolithic BHFl/HFxl fragments subrounded and irregular within HFxl matrix and aphanitic groundmass, cross sut by HFxl foliated dykes at 40 degrees. Fragment contacts generally indistinct, likely about 45% clast content. ALTERATION- weak local pervasive silica, strong pervasive K-spar, moderate to strong pervasive to sheeted olive green sericite increasing towards lower contact, weak irregular quartz/calcite stockwork. Lower contact=sharp at 90 degrees.	50812 50813 50814 50815 50816 50817 50818 50820 50821 50822 50823	132.50-134.00 134.00-135.50 135.50-137.00 137.00-138.50 138.50-140.00 140.00-141.00 141.00-142.50 142.50-144.00 144.00-145.50 145.50-147.00 147.00-148.50	1.50 1.50 1.50 1.50 1.50 1.00 1.50 1.50 1.50 1.50 1.50	0.005 0.010 0.010 0.005 0.005 0.010 0.005 0.005 0.005 0.005 0.025	0.20 0.20 0.40 0.60 0.20 0.40 0.20 0.80	33.0 34.0 34.0 33.0 25.0 32.0 26.0 25.0 19.0 19.0 20.0	107.0 123.0 108.0 115.0 113.0 95.0 76.0 94.0 73.0 59.0 65.0	15.0 25.0 30.0 25.0 25.0 30.0 75.0 95.0 85.0 115.0 105.0	110.0 91.0 110.0 68.0 67.0 155.0 143.0 47.0 42.0 44.0 71.0	14.0 14.0 16.0 20.0 20.0 22.0 24.0 26.0 16.0 24.0 38.0
		<137.00-139.80> Moderate SI pervasive Moderate pervasive silica.										
		<138.10-138.40> rubbly fault zone Strong angular broken core with 5% gouge; irregular										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		fracture orientation.										
		<145.60-148.50> Intense MT disseminated										
		MINERALIZATION- 5% disseminated pyrite.										
		<145.60-148.50> Hornblende Feldspar xtalline										
		Green										
		foliated 40°										
		Strong MS SHEETED										
		Strongly foliated HFxl with 30% dark green and cream hornblende nedles and possible elongate augite/biotites at 40 degrees, strong sheeted sericite, purplish chlorite patches. MINERALIZATION- 5% disseminated pyrite.										
148.50	164.99	mudstone	50824	148.50-151.00	2.50	0.015	0.40	18.0	140.0	25.0	141.0	20.0
		Aphanitic, black, contorted, graphitic	50825	151.00-152.00	1.00	0.005		18.0	164.0	15.0	63.0	20.0
		foliated 45°	50826	152.00-153.50	1.50	0.010		16.0	161.0	15.0	62.0	12.0
		Frs=5/m	50827	153.50-155.00	1.50	0.010	0.40	25.0	131.0	35.0	142.0	18.0
		Weak CB patches	50828	155.00-156.50	1.50	0.005	0.40	25.0	140.0	90.0	85.0	18.0
		Moderate MS patches	50829	156.50-158.00	1.50	0.005	0.40	31.0	64.0	340.0	53.0	20.0
		Weak MT pervasive	50830	158.00-159.50	1.50	0.005	0.40	20.0	60.0	85.0	56.0	20.0
		Moderate QC microveins	50831	159.50-161.00	1.50	0.005	0.40	33.0	71.0	165.0	68.0	22.0
		Black to dark gray fine grained mudstone	50832	161.00-162.50	1.50	0.015	0.80	17.0	86.0	280.0	219.0	36.0
		intercalibrated with light green gray strongly	50833	162.50-164.00	1.50	0.010	1.00	13.0	72.0	65.0	812.0	86.0
		sericite altered, foliated HFxl with 25% cream to light green translucent subhedral hornblende phenos to 1mm. aphanitic matrix. Likely dykelettes, possibly crystal tuff layers. Local light gray lapilli size fragments. Contorted bedding between 30 and 50 degrees, average 45 degrees. ALTERATION- moderate patchy sericite, moderate quartz/calcite veins to 1cm., 5 per meter, weak pervasive magnetite. MINERALIZATION- 2% pyrrhotite as granular patches with less disseminations, 1% pyrite. Lower contact=sharp, irregular.										
		<148.50-164.99> Weak PR patches										
		2 % pyrrhotite - patches										
		MINERALIZATION- 2% pyrrhotite as granular patches with less disseminations, 1% pyrite. Lower contact-sharp, irregular.										
164.99	185.70	tuff	50834	164.00-165.50	1.50	0.010	1.20	14.0	54.0	250.0	133.0	40.0
		Fine grained, green	50835	165.50-167.00	1.50	0.065	15.40	24.0	183.0	115.0	1355.0	1478.0
		foliated 60°	50836	167.00-168.50	1.50	0.060	2.80	25.0	155.0	80.0	190.0	58.0
		Frs=8/m :Vns =15/m	50837	168.50-170.00	1.50	0.070	2.60	28.0	144.0	145.0	337.0	60.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Weak SI patches	50838	170.00-171.50	1.50	0.035	2.20	30.0	150.0	40.0	226.0	98.0
	Weak CL wispy	50839	171.50-173.00	1.50	0.010	1.20	23.0	94.0	40.0	108.0	40.0
	Moderate CB patches	50840	173.00-174.50	1.50	0.005	2.00	27.0	85.0	90.0	176.0	78.0
	Strong MS pervasive	50841	174.50-176.00	1.50	0.005	1.60	21.0	82.0	100.0	256.0	64.0
	Weak PY disseminated	50842	176.00-177.50	1.50	0.005	1.20	31.0	139.0	75.0	179.0	46.0
	Moderate CV stockwork	50843	177.50-179.00	1.50	0.005	3.40	20.0	105.0	85.0	613.0	152.0
	Medium apple green to green gray to gray strongly	50844	179.00-180.50	1.50	0.010	2.60	29.0	277.0	205.0	271.0	62.0
	foliated HFxl with 30% cream to light green	50845	180.50-182.00	1.50	0.005	1.60	24.0	85.0	30.0	853.0	96.0
	translucent aligned hornblende phenos to 1.5mm. very	50846	182.00-183.50	1.50	0.005	3.60	20.0	69.0	20.0	2658.0	262.0
	fine grained to aphanitic matrix intercalibrated with	50847	184.00-185.00	1.00	0.005	1.20	15.0	40.0	20.0	159.0	40.0
	BHFl units to 2.5mm. with 10% aligned biotite phenos.										
	Strong foliation may be suggestive of volcanic										
	(crystal tuff), flow bedded dyke or flow, or strongly										
	ductile sheared unit. ALTERATION- strong pervasive										
	sericite, weak to moderate patchy silica, with										
	calcite, moderate irregular quartz/carbonate										
	stockwork. Highly contorted, irregular foliation.										
<166.45-166.65>	Strong MT disseminated										
	2 % sphalerite - disseminated										
	MINERALIZATION- 2% possible disseminated black										
	sphalerite, 4% fine grained disseminated pyrite.										
<166.45-166.65>	VEINED & DISSEMINATED SULPHIDE										
	MINERALIZATION- 2% possible disseminated black										
	sphalerite, 4% fine grained disseminated pyrite.										
<170.00-180.40>	Strong MT disseminated										
	MINERALIZATION- 4% fine grained disseminated pyrite										
	with less irregular granular patches.										
<170.00-180.40>	VEINED & DISSEMINATED SULPHIDE										
	MINERALIZATION- 4% fine grained disseminated pyrite										
	with less irregular granular patches.										
<180.40-181.80>	Broken Core										
	Rubbly, calcareous broken core, 2% fine grained gouge,										
	irregular fracture orientation.										
<181.80-182.50>	Intense MT patches										
	MINERALIZATION- 5% fine grained to very fine grained										
	granular pyrite patches with less disseminations.										
<181.80-182.50>	VEINED & DISSEMINATED SULPHIDE										
	MINERALIZATION- 5% fine grained to very fine grained										
	granular pyrite patches with less disseminations.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<184.40-185.30>		Biotite Hbl Fdsp xtalline Fine grained, green, foliated, porphyritic foliated 35° BHFl with 15% cream elongate biotite/augite? (likely augite) phenos to 2.5mm. fine grained matrix, foliated at 35 degrees.										
185.70	188.50	Broken Core Fine grained, greenish-gray, broken Weak SI patches Weak CL wispy Moderate CB patches Strong MS patches Moderate QC stockwork Strong crumbly angular broken core with 1% fine grained gouge within HFxl. D.A.P.- 164.99 to 185.7m. Fractures generally at high angle to core axis, but inconsistent angle.	50848 50849	185.00-186.50 186.50-188.00	1.50 1.50	0.005 0.030	1.00 1.60	17.0 33.0	60.0 94.0	15.0 65.0	170.0 151.0	40.0 54.0
188.50	196.40	tuff Fine grained, green, contorted, crystalline foliated 35° Frs=12/m Moderate SI patches Moderate CL pervasive Moderate CB patches Strong MS pervasive Trace HE pervasive Moderate QC stockwork HFxl. D.A.P.- 164.99 to 185.7m., local traces of purplish rock likely pervasive hematite. Folaition generally at 35 degrees. MINERALIZATION- 3% disseminated pyrite.	50850 50851 50852 50853 50854	188.00-189.50 189.50-190.50 190.50-192.00 192.00-193.50 193.50-195.00	1.50 1.00 1.50 1.50 1.50	0.005 0.035 0.005 0.005 0.005	1.40 2.80 0.20 1.00 0.40	27.0 25.0 14.0 24.0 28.0	69.0 107.0 5.0 65.0 64.0	35.0 30.0 5.0 5.0	162.0 820.0 86.0 198.0 104.0	100.0 132.0 18.0 42.0 32.0
<188.50-196.40>		Moderate MT disseminated MINERALIZATION- 3% disseminated pyrite.										
<190.60-191.05>		Moderate HE pervasive Moderate purplish pervasive hematite?										
<192.35-192.65>		Weak HE disseminated Weak patchy disseminated hematite.										
<195.70-195.95>		QUARTZ-CALCITE VEINS contact 45°:contact 70° 20cm. irregular orientation massive calcite/quartz vein. Upper contact=45 degrees, lower contact=70										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		degrees.										
196.40	198.40	mudstone	50855	195.00-196.50	1.50	0.005	0.40	31.0	69.0	40.0	75.0	22.0
		Aphanitic, dark gray, foliated, contorted	50856	196.50-198.00	1.50	0.020	1.20	12.0	111.0	95.0	566.0	20.0
		Frs=7/m :Vns =10/m										
		Intense SI massive										
		Moderate CB patches										
		Moderate MS patches										
		Weak PY disseminated										
		Moderate QC stockwork										
		Massive, foliated black mudstone with light gray green sediments, highly contorted and locally, highly silicified possibly related to fault zone at lower contact. May be intensely sheared HFxl, but no visible phenos. MINERALIZATION- 3% fine grained euhedral disseminated and fracture fill pyrite.										
		<196.40-198.40> Moderate MT fracture fill										
		MINERALIZATION- 3% fine grained euhedral disseminated and fracture fill pyrite.										
198.40	203.00	rubbly fault zone	50857	198.00-199.50	1.50	0.005	1.00	15.0	81.0	55.0	409.0	26.0
		Foliated	50858	199.50-201.00	1.50	0.145	1.20	13.0	69.0	165.0	197.0	14.0
		gouge 65°	50859	201.00-202.50	1.50	0.055	1.20	20.0	84.0	220.0	148.0	26.0
		Weak SI patches										
		Strong CB patches										
		Strong MS pervasive										
		Moderate PY disseminated										
		Large, strong fault zone with annealed gouge within unknown unit, likely highly contotrd sediments, likely oritented at 65 degrees, strongly pervasively sericite altered, strong pervasive clay, strong patchy cabronate, weak patchy silica. MINERALIZATION- 5% disseminated pyrite.										
		<198.40-203.00> Intense MT disseminated										
		MINERALIZATION- 5% disseminated pyrite.										
203.00	213.00	diorite	50860	202.50-204.00	1.50	0.005		18.0	46.0		43.0	14.0
		Gray, porphyritic	50861	204.00-205.50	1.50	0.005		17.0	46.0		42.0	14.0
		Frs=15/m	50862	205.50-207.00	1.50	0.005		13.0	41.0		27.0	14.0
		Weak EP stockwork	50863	207.00-208.50	1.50	0.005		12.0	39.0	5.0	27.0	14.0
		Trace PY disseminated	50864	208.50-210.00	1.50	0.005		11.0	46.0		27.0	14.0
		Weak CV stockwork	50865	210.00-211.50	1.50	0.005		14.0	25.0	10.0	42.0	14.0
		Diorite, possibly fresh version of HFxl (unaltered) with 20% dark green hornblende laths and needles, 55% white subhedral hornblendes to 3mm. aphanitic matrix,	50866	211.50-213.00	1.50	0.010		12.0	40.0		33.0	12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		weak microfractured stockwork of epidote/calcite.										
		<207.30-208.2> Moderate angular broken core; no visible gold, inconsistent fracture orientation.										
		<210.00-212.30> rubbly fault zone Numerous small gougy slips at high angle to core axis with annealed shattered gouge near lower contact within moderate broken core, weak bleaching and calcite leaching.										
213.00	219.73	diorite	50867	213.00-214.50	1.50	0.005		21.0	19.0		62.0	14.0
		Aphanitic, greenish-gray	50868	214.50-216.00	1.50	0.005		23.0	19.0		62.0	14.0
		Frs=8/m	50869	216.00-216.40	0.40	0.005		19.0	18.0		52.0	12.0
		Weak CB stockwork	51068	216.68-218.00	1.32	0.005	0.20	16.0	16.0	5.0	16.0	8.0
		Strong MT pervasive	51069	218.00-219.50	1.50	0.005		33.0	75.0		71.0	6.0
		Weak EP stockwork										
		Unknown fine grained dark green gray speckled intrusive 20% light gray anhedral speckles/phenos to 2mm., maybe altered diorite or fine grained gabbro. ALTERATION- strong pervasive chlorite, magnetite, weak carbonate stockwork +/- epidote. MINERALIZATION- 0.5% fracture fill pyrite and irregular wispy stringers.										
		<213.00-219.73> ?? MT fracture fill MINERALIZATION- 0.5% fracture fill pyrite and irregular wispy stringers.										
		<213.00-213.35> Broken Core Strong angular broken core, no visible gold.										
219.73	221.28	rubbly fault zone	51070	219.50-221.00	1.50	0.005		23.0	23.0		72.0	12.0
		gouge 60°:gouge 35° Strongly broken gabbro; strong angular broken core with up to 5cm. chloritic gouge, some gougy orientations at 60 degrees. Other gougy slips at 35 degrees. Likely camp gully fault zone.										
221.28	222.50	gabbro	51071	221.00-221.59	0.59	0.005		26.0	29.0		72.0	6.0
		Medium grained, dark green, porphyritic, massive	50870	221.59-222.50	0.91	0.005		22.0	18.0		62.0	14.0
		Frs=8/m										
		Intense CL pervasive										
		Strong MT pervasive										
		Weak EP patches										
		Weak QC stockwork										
		Dark green gabbro with 15% black sub to euhedral augite phenos to 5mm., 2% light green anhedral										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		plagiocryst? phenos to 3mm., very fine grained matrix, fining towards upper contact. ALTERATION- strong pervasive chlorite, magnetite, moderate magnetite, patchy and fracture fill weak quartz/calcite stockwork.										
	(eoh)											

Hole: CL96-45 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 — CL96-46

PROJECT: Clone	Date Commenced: 24/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-46	Date Completed: 25/07/96		Geotech by: DBL
LENGTH: 230.73	Core Diam: BQTK		

Collar Location

Latitude:	2064.82
Departure:	2036.90
Elevation:	1393.91

S U M M A R Y

0.00-0.37	CASING
0.37-58.70	Biotite Hbl Fdsp xtalline *
58.70-64.70	rubbly fault zone
64.70-83.20	Hornblende Feldspar xtalline
83.20-103.30	Biotite Hbl Fdsp xtalline
103.30-116.50	Biotite Hbl Fdsp xtalline *
116.50-149.89	ANDESITE
149.89-151.03	mudstone *
151.03-163.68	Hornblende Feldspar xtalline
163.68-173.46	mudstone
173.46-221.78	Hornblende Feldspar xtalline ****
221.78-224.64	rubbly fault zone
224.64-230.43	gabbro *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	270.00	-62.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	0.37	CASING										
		Casing.										
0.37	58.70	Biotite Hbl Fdsp xtalline	50871	0.37-1.00	0.63	0.005		10.0			33.0	12.0
		Fine grained, red, crystalline	50872	1.00-2.00	1.00	0.005	0.60	9.0	5.0	5.0	33.0	14.0
		qz-carb veining 70°	50873	2.00-3.00	1.00	0.010		7.0	2.0		25.0	12.0
		Frs=8/m :Vns =15/m	50874	3.00-4.00	1.00	0.005		9.0	3.0	5.0	32.0	12.0
		Moderate SI pervasive	50875	4.00-5.00	1.00	0.005		7.0			30.0	14.0
		Moderate CL wispy	50876	5.00-6.00	1.00	0.005		6.0	34.0		37.0	10.0
		Moderate MS patches	50877	6.00-7.00	1.00	0.005		7.0	28.0	10.0	42.0	14.0
		Weak EP microveins	50878	7.00-8.00	1.00	0.005		9.0	73.0		44.0	12.0
		Strong HE pervasive	50879	8.00-9.00	1.00	0.010		8.0	27.0		32.0	14.0
		Moderate QC microveins	50880	9.00-10.00	1.00	0.010		18.0	18.0		29.0	12.0
		Medium to dark red with patchy medium green BHFl with	50882	10.00-11.00	1.00	0.005		19.0	58.0	10.0	26.0	10.0
		10% euhedral platy biotite phenos to 5mm. 20% light to	50883	11.00-12.00	1.00	0.005		13.0	19.0		47.0	12.0
		dark green subhedral hornblende needles to 1.5mm. fine	50884	12.00-13.00	1.00	0.005		7.0	16.0		47.0	8.0
		grained to very fine grained matrix. ALTERATION-	50885	13.00-14.00	1.00	0.005		7.0	12.0		26.0	8.0
		dtrong, locally moderate pervasive, locally intense	50886	14.00-15.00	1.00	0.005		8.0	11.0	10.0	21.0	8.0
		pervasive hematite, with less wispy stockwork and	50887	15.00-16.00	1.00	0.005		8.0	38.0		24.0	8.0
		microfracture controlled weak locally moderate wispy	50888	16.00-17.00	1.00	0.005		11.0	13.0		22.0	10.0
		and pervasive hematite, local patchy moderate light	50889	17.00-18.00	1.00	0.005		8.0		10.0	21.0	12.0
		green sercite, weak epidote with weak to moderate	50890	18.00-19.00	1.00	0.010		9.0	4.0	5.0	32.0	14.0
		quartz/calcite veins. Weak H-zone? somewhere in	50891	19.00-20.00	1.00	0.005		8.0	48.0		25.0	14.0
		interval.	50892	20.00-21.00	1.00	0.010	1.00	8.0	444.0		25.0	10.0
<3.90-15.90>		Trace SI pervasive										
		Strong pervasive hematite with less microfracture										
		control with good solution fronts. Weak to absent										
		pervasive silica.										
<20.50-24.00>		Semi-massive hematite	50893	21.00-22.00	1.00	0.005		11.0	10.0		35.0	10.0
		Moderate SI pervasive	50894	22.00-23.00	1.00	0.005		14.0	11.0		45.0	12.0
		Strong HE pervasive	50895	23.00-24.00	1.00	0.010		15.0	9.0	5.0	52.0	12.0
		Strong pervasive hematite, moderate pervasive silica.										
<25.00-28.30>		Moderate SI pervasive	50896	24.00-25.00	1.00	0.020		11.0	17.0	15.0	29.0	12.0
		Strong HE pervasive	50897	25.00-26.00	1.00	0.100		11.0	8.0	10.0	39.0	12.0
		Strong pervasive hematite, moderate pervasive silica.	50898	26.00-27.00	1.00	0.005		8.0	1.0	10.0	37.0	12.0
<33.30-34.40>		Moderate SI pervasive	50899	27.00-28.00	1.00	0.005		9.0	29.0	5.0	39.0	12.0
		Strong HE pervasive	50900	28.00-29.00	1.00	0.005		9.0	61.0	5.0	33.0	14.0
		Strong pervasive hematite, moderate pervasive silica.	50901	29.00-30.00	1.00	0.005		10.0	5.0		38.0	12.0
<34.70-34.80>		.2% arsenopyrite - disseminated	50902	30.00-31.00	1.00	0.020		16.0	12.0	5.0	50.0	16.0
		MINERALIZATION- trace disseminated very fine grained	50903	31.00-32.00	1.00	0.010		12.0	5.0	5.0	65.0	12.0
		arsenopyrite.	50904	32.00-33.00	1.00	0.005		18.0	18.0	5.0	76.0	12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<34.70-34.80>		QUARTZ-CALCITE VEINS	50905	33.00-34.00	1.00	0.005		16.0	26.0		52.0	12.0
		qz-carb veining 70°										
		Strong EP vein										
		10cm. quartz/epidote/calcite vein at 90 degrees.										
		MINERALIZATION- trace disseminated very fine grained										
		arsenopyrite.										
<35.30-38.35>		Semi-massive hematite	50906	34.00-35.00	1.00	0.010		13.0	24.0	10.0	51.0	20.0
		Moderate SI pervasive	50907	35.00-36.00	1.00	0.005		12.0			68.0	10.0
		Moderate MS patches	50908	36.00-37.00	1.00	0.005		6.0	14.0	5.0	35.0	8.0
		Strong HE pervasive	50909	37.00-38.00	1.00	0.005		5.0		5.0	30.0	8.0
		Strong pervasive silica, moderate patchy olive green										
		sericite, moderate to strong pervasive silica.										
<38.70-42.20>		Moderate SI pervasive	50910	38.00-39.00	1.00	0.005		7.0	132.0		42.0	12.0
		Intense HE pervasive	50911	39.00-40.00	1.00	0.005		9.0	5.0	5.0	57.0	12.0
		Strong to intense pervasive hematite, moderate to	50912	40.00-41.00	1.00	0.005		10.0			51.0	14.0
		strong pervasive silica.	50913	41.00-42.00	1.00	0.005		8.0	15.0		44.0	12.0
<44.70-51.20>		Strong SI pervasive	50914	42.00-43.00	1.00	0.010		7.0	15.0	5.0	34.0	10.0
		Intense HE pervasive	50915	43.00-44.00	1.00	0.010		6.0	22.0		34.0	10.0
		Strong to intense pervasive hematite, strong pervasive	50916	44.00-45.00	1.00	0.005		6.0	17.0		45.0	12.0
		silica, H-zone? no observable specularite ?????	50917	45.00-46.00	1.00	0.095		24.0	15.0	10.0	106.0	14.0
<52.20-58.70>		Moderate CL pervasive	50918	46.00-47.00	1.00	0.465		21.0	4.0	10.0	81.0	12.0
		Moderate MS patches	50919	47.00-48.00	1.00	0.770	0.20	167.0	5.0		68.0	12.0
		Moderate HE wispy	50920	48.00-49.00	1.00	0.005		27.0	2.0	5.0	100.0	10.0
		Moderate wispy stockwork hematite with less pervasive	50921	49.00-50.00	1.00	0.005		9.0	5.0		60.0	10.0
		and microfracture controlled, moderate pervasive	50922	50.00-51.00	1.00	0.005		8.0	26.0		51.0	10.0
		chlorite, moderate patchy light green sercite.	50923	51.00-52.00	1.00	0.010			130.0		76.0	14.0
58.70	64.70	rubbly fault zone	50924	52.00-53.00	1.00	0.005	0.60	8.0	323.0		45.0	10.0
		Fine grained, oxidized, crystalline	50925	53.00-54.00	1.00	0.005		11.0	21.0		63.0	14.0
		Weak SI patches	50926	54.00-55.00	1.00	0.005		7.0	163.0		86.0	14.0
		Moderate CL pervasive	50927	55.00-56.00	1.00	0.005		7.0	162.0	5.0	85.0	14.0
		Moderate MS pervasive	50928	56.00-57.00	1.00	0.005		8.0	2.0		132.0	12.0
		Moderate HE wispy	50929	57.00-58.00	1.00	0.005		8.0	3.0		108.0	14.0
		Strong angular broken core within BHFl, strong	50930	58.00-59.00	1.00	0.005		8.0	15.0	10.0	87.0	12.0
		limonire fracture fill with trace to 0.5% rusty gouge,	50931	59.00-60.00	1.00	0.005		7.0		15.0	106.0	14.0
		moderate bleaching and strong calcite leaching BHFl	50932	60.00-61.00	1.00	0.005		13.0		5.0	93.0	12.0
		with 10% euhedral biotite phenos, aphanitic matrix,	50933	61.00-62.00	1.00	0.010	0.20	9.0	57.0	15.0	82.0	22.0
		moderate pervasive chlorite, sericite, moderate	50934	62.00-63.00	1.00	0.005		6.0	17.0	25.0	64.0	18.0
		stockwork hematite, with less pervasive and	50935	63.00-64.00	1.00	0.030		13.0	2.0	30.0	179.0	14.0
		microfracture controlled. No major apparent core loss.										
<60.60-60.90>		Semi-massive hematite										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong SI pervasive Strong HE pervasive Strong pervasive silica, strong pervasive hematite.										
64.70	83.20	Hornblende Feldspar xtalline Fine grained, redish-green, mottled, crystalline Frs=15/m Trace SI patches Moderate CL pervasive Moderate MS patches Moderate KS pervasive Moderate HE pervasive Weak PY stringer Weak QC stockwork Hematite stockwork zone. Medium red or medium green HFxl with 20% dark to light green to dark gray; locally cream hornblende needles to 1.5mm. very fine grained to aphanitic matrix. ALTERATION- moderate to weak pervasive and wispy with less fracture fill chlorite, moderate pervasive sericite, locally patchy apple green, strong to moderate wispy stockwork and microfracture controlled or strong pervasive patchy hematite, local weak patchy silica, weak irregular quartz/calcite stockwork. Rare copper or dark green biotites, not enough to warrant BHFl, graduating towards upper contact and lower contact.	50936 50937 50938 50939 50940 50941 50942 50943 50944 50945 50946 50947 50948 50949 50950 50951 50953 50954 50955	64.00-65.00 65.00-66.00 66.00-67.00 67.00-68.00 68.00-69.00 69.00-70.00 70.00-71.00 71.00-72.00 72.00-73.00 73.00-74.00 74.00-75.00 75.00-76.00 76.00-77.00 77.00-78.00 78.00-79.00 79.00-80.00 80.00-81.00 81.00-82.00 82.00-83.00	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 1.00 1.00 1.00	0.010 0.005 0.005 0.010 0.005 0.010 0.020 0.005 0.010 0.005 0.045 0.010 0.555 0.095 0.005 0.005 0.010 0.005 0.005	0.20 0.40 0.60 0.20 0.60 0.20 0.40	6.0 8.0 7.0 9.0 6.0 7.0 8.0 7.0 9.0 11.0 11.0 12.0 18.0 23.0 18.0 14.0 9.0 9.0 9.0	16.0 7.0 9.0 112.0 7.0 138.0 211.0 8.0 9.0 15.0 2.0 7.0 4.0 12.0 4.0	15.0 10.0 10.0 10.0 20.0 5.0 5.0 	58.0 64.0 74.0 70.0 50.0 43.0 41.0 27.0 41.0 90.0 288.0 460.0 272.0 257.0 175.0 168.0 83.0 41.0 96.0	8.0 12.0 10.0 14.0 10.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 14.0 12.0 12.0 12.0 6.0 8.0 8.0
<65.30-65.90>		Semi-massive hematite Weak SI pervasive Strong HE pervasive Strong pervasive hematite, weak pervasive silica.										
<65.60-66.50>		foliated 20° Moderate HE wispy Moderate hematitic foliation at 20 degrees.										
<69.70-70.60>		Strong rusty angular broken core, strong calcite leaching and moderate bleaching, weak with 1cm. bladed calcite tension fracture at 5 degrees.										
<70.70-75.00>		VEINED & DISSEMINATED SULPHIDE 4% fine grained stringer pyrite with less flattered fracture fill with pyritic slickenslides. Irregular orientation of stringers, likely related to weak to moderate fault zone.										
<71.50-72.90>		Broken Core										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Likely weak fault zone, moderate broken core with trace gouge, mottled ragged looking core, likely due to annealed gouge.										
		<76.20-77.40> VEINED & DISSEMINATED SULPHIDE Strong SI pervasive Strong MS patches Moderate HE wispy Strong apple green to tan sericite with strong pervasive silica and moderate wispy hematite. MINERALIZATION- 2% disseminated and fracture fill fine grained pyrite. Ragged looking core.										
		<77.40-81.50> Broken Core Weak angular broken core.										
		<79.09-79.65> crystalline fragement A lone dark green subangular crystalline fragment.										
		<81.50-82.45> Weak SI pervasive Moderate HE pervasive Moderate pervasive hematite, weak pervasive silica.										
		<82.90-83.20> Broken Core Moderate subangular broken core.										
83.20	103.30	Biotite Hbl Fdsp xtalline	50956	83.00-84.00	1.00	0.005		10.0			77.0	8.0
		Fine grained, redish-green, mottled, crystalline	50957	84.00-85.00	1.00	0.010	0.60	9.0	155.0		43.0	4.0
		qz-carb veining 85°	50958	85.00-86.00	1.00	0.005		8.0	5.0		61.0	4.0
		Frs=8/m :Vns =30/m	50959	86.00-87.00	1.00	0.010		7.0	6.0		54.0	6.0
		Moderate CL pervasive	50960	87.00-88.00	1.00	0.010		8.0	1.0	10.0	54.0	8.0
		Weak MS patches	50961	88.00-89.00	1.00	0.005		10.0	36.0		56.0	8.0
		Moderate KS pervasive	50962	89.00-90.00	1.00	0.005		7.0	42.0	15.0	55.0	8.0
		Moderate HE wispy	50963	90.00-91.00	1.00	0.005		7.0	5.0	5.0	61.0	4.0
		Moderate CV microveins	50964	91.00-92.00	1.00	0.040	1.00	12.0	179.0		79.0	8.0
		Trace QC microveins	50965	92.00-93.00	1.00	0.010		41.0	5.0	10.0	158.0	6.0
		Hematite stockwork zone. Medium to dark green to	50966	93.00-94.00	1.00	0.135		29.0	10.0	20.0	120.0	10.0
		medium to dark red BHFl with 5% dark green to copper	50967	94.00-95.00	1.00	0.060		25.0	149.0	5.0	83.0	6.0
		coloured platy biotite phenos, locally taxitic to 15%	50968	95.00-96.00	1.00	0.020		9.0	5.0		98.0	8.0
		may represent fragmental, moderate to strong pervasive	50969	96.00-97.00	1.00	0.030		7.0	19.0		81.0	6.0
		and wispy chlorite, weak to moderate patchy sericite,	50970	97.00-98.00	1.00	0.175		21.0	47.0		127.0	6.0
		moderate wispy hematite stockwork with less	50971	98.00-99.00	1.00	0.010	0.20	15.0	195.0		52.0	8.0
		microfracture controlled and pervasive, moderate	50972	99.00-100.00	1.00	0.010		18.0	12.0		51.0	6.0
		calcite +/- quartz, veinlettes to 3 to 5mm., commonly	50973	100.00-101.00	1.00	0.005		12.0	25.0	5.0	66.0	6.0
		at 85 degrees. Gradually decreasing hematite towards	50974	101.00-102.00	1.00	0.005		12.0	18.0		62.0	6.0
		lower contact.	50975	102.00-103.00	1.00	0.005		15.0	37.0		72.0	6.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<87.10-87.60>		Chlorite Streaming Broken, oxidized sheeting 45° Strong CL SHEETED Strong chlorite fluid streaming at 45 degrees causing brecciated appearance, overprinted by moderate broken core and limonite fracture fill.										
<87.80-88.35>		Semi-massive hematite Strong HE pervasive Strong pervasive hematite.										
<91.70-94.25>		Strong CL pervasive Strong pervasive hematite.										
<95.30-95.60>		foliated 25° Weak SI patches Moderate HE wispy Moderate foliated hematite at 25 degrees, weak patchy silica.										
<96.60-97.40>		Semi-massive hematite Weak SI patches Strong HE pervasive Strong pervasive hematite, weak patchy silica.										
<97.85-98.55>		Moderate SI pervasive Strong HE pervasive Strong pervasive hematite, moderate patchy silica, mottled, weakly fragmental appearance.										
103.30	116.50	Biotite Hbl Fdsp xtalline	50976	103.00-104.00	1.00	8.720	2.00	15.0	187.0	10.0	108.0	6.0
		Fine grained, green, broken, crystalline	50977	104.00-105.00	1.00	0.130	0.40	13.0	27.0		66.0	10.0
		contact 30°	50978	105.00-106.00	1.00	0.560	1.80	38.0	260.0	20.0	120.0	72.0
		Frs=20/m :Vns =20/m	50979	106.00-107.50	1.50	0.005		11.0	65.0	30.0	67.0	20.0
		Moderate SI pervasive	50980	107.50-109.00	1.50	0.020	0.40	12.0	66.0	20.0	93.0	92.0
		Moderate CL pervasive	50981	109.00-110.50	1.50	0.015		12.0	64.0	30.0	94.0	44.0
		Moderate CB patches	50982	110.50-112.00	1.50	0.020		12.0	63.0	15.0	102.0	24.0
		Moderate MS pervasive	50983	112.00-113.50	1.50	0.035		10.0	72.0	15.0	50.0	14.0
		Trace HE wispy	50984	113.50-115.00	1.50	0.010		7.0	43.0		54.0	12.0
		Moderate QC macroveins	50985	115.00-116.50	1.50	0.160	0.80	17.0	194.0	30.0	59.0	6.0
		Medium green to dark green BHFl with 5% light gray to dark green platy sub to euhedral biotite phenos to 3mm. 20% cream to light green translucent to dark green hornblende phenos to 1.5mm. very fine grained to aphanitic matrix. ALTERATION- moderate to strong pervasive 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
		moderate pervasive light green sericite, moderate pervasivesilica, increasing towards lower contact. Weak wispy hematite near upper contact, moderate irregular quartz/calcite stockwork and patches. Lower contact=1m. of coarse grained quartz/calcite veins to 30cm. with wallrock fragments. Lower contact=sharp at 30 degrees.										
		<103.30-105.80> Weak SI patches Strong CL pervasive Weak HE wispy Strong pervasive chlorite, weak wispy hematite; weak patchy silica.										
		<105.80-106.50> MINERALIZATION- trace calcopyrite within quartz/calcite veins at 30 degrees.										
		<105.80-106.50> VEINED & DISSEMINATED SULPHIDE qz-carb veining 30° :Vns =1/m MINERALIZATION- trace calcopyrite within quartz/calcite veins at 30 degrees.										
		<106.50-109.60> Broken Core fracturing 75° Weak broken core; fractures common at 75 degrees.										
		<109.60-112.10> fracturing 20° Moderate broken core, trace carbonaceous gouge, weak limonite fracture fill, weak bleaching.										
116.50	149.89	ANDESITE Aphanitic, green Frs=5/m :Vns =1/m Moderate CL pervasive Weak GY disseminated Strong MT pervasive Trace CV stockwork Medium green freah andesite? dyke with 1% black subhedral phenos pyroxene? one looks like hexagonal biotite phenos, 50% light gray speckles. ALTERATION- weak to moderate pervasive chlorite, weak patchy gypsum alteration of phenos, strong pervasive magnetite, may be primary, trace irregular calcite stockwork. Likely drilles straight down ?, possibly cutting off S-zones.	50986	116.50-118.00	1.50	0.005		21.0	13.0	15.0	90.0	12.0
			50987	118.00-119.50	1.50	0.010		23.0	14.0		90.0	14.0
			50988	119.50-121.00	1.50	0.005		28.0	15.0		89.0	18.0
			50990	121.00-122.50	1.50	0.010		27.0	17.0	5.0	85.0	20.0
			50991	122.50-124.00	1.50	0.005		29.0	21.0		91.0	18.0
			50992	124.00-125.50	1.50	0.005		28.0	17.0		89.0	18.0
			50993	125.50-127.00	1.50	0.005		28.0	16.0		91.0	18.0
			50994	127.00-128.50	1.50	0.005		29.0	21.0		92.0	20.0
			50995	128.50-130.00	1.50	0.005		28.0	15.0		91.0	18.0
			50996	130.00-131.50	1.50	0.005		29.0	16.0		93.0	20.0
			50997	131.50-133.00	1.50	0.005		30.0	14.0		95.0	22.0
			50998	133.00-134.50	1.50	0.005		30.0	16.0		98.0	24.0
			50999	134.50-136.00	1.50	0.005		30.0	17.0		98.0	24.0
			51000	136.00-137.50	1.50	0.005		30.0	17.0		100.0	24.0
			51001	137.50-139.00	1.50	0.005		31.0	16.0		102.0	24.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
149.89	151.03	mudstone	51002	139.00-140.50	1.50	0.010		31.0	18.0		102.0	26.0
		Aphanitic, black	51003	140.50-142.00	1.50	0.005		31.0	19.0		103.0	26.0
		foliated 40°:contact 50°	51004	142.00-143.50	1.50	0.005		31.0	18.0		104.0	28.0
		Frs=5/m :Vns =20/m	51005	143.50-145.00	1.50	0.005		31.0	16.0		107.0	30.0
		Moderate CB patches	51006	145.00-146.50	1.50	0.005		31.0	17.0		109.0	30.0
		Moderate MS patches	51007	146.50-148.00	1.50	0.005		31.0	17.0		108.0	28.0
		Weak MT pervasive	51008	148.00-149.00	1.00	0.005		31.0	19.0		109.0	32.0
		Moderate PY disseminated	51009	149.00-149.89	0.89	0.005		30.0	18.0		109.0	30.0
		Black to dark gray mudstone laminated irregularly at	51010	149.89-151.03	1.14	0.170	0.40	36.0	95.0	560.0	118.0	44.0
		40 degrees likely remnant bedding within										
		intercalibrated olive green HFxl dykes/crystal tuff										
		layers. ALTERATION- moderate patchy sericite within										
		HFxl, moderate patchy calcite. MINERALIZATION- 5%										
		patchy pyrite with less dissemination. Weak pervasive										
		magnetite.										
	<149.89-151.03>	Intense MT patches										
		MINERALIZATION- 5% patchy pyrite with less										
		dissemination. Weak pervasive magnetite.										
151.03	163.68	Hornblende Feldspar xtalline	51011	151.03-152.00	0.97	0.360		44.0	95.0	420.0	78.0	24.0
		Fine grained, greenish-gray, foliated, mottled	51012	152.00-153.50	1.50	0.135	0.20	32.0	70.0	265.0	59.0	22.0
		foliated 40°	51013	153.50-155.00	1.50	0.020		25.0	37.0	160.0	39.0	18.0
		Weak CL wispy	51014	155.00-156.50	1.50	0.255		82.0	139.0	865.0	60.0	16.0
		Moderate CB patches	51015	156.50-158.00	1.50	0.600		133.0	111.0	1835.0	61.0	18.0
		Strong MS pervasive	51016	158.00-159.50	1.50	0.095		55.0	154.0	285.0	66.0	14.0
		Strong KS pervasive	51017	159.50-161.00	1.50	0.055		53.0	98.0	515.0	77.0	14.0
		Trace PY disseminated	51018	161.00-162.50	1.50	0.005		33.0	65.0	45.0	168.0	10.0
		Trace QC microveins	51019	162.50-163.68	1.18	0.005		43.0	106.0	55.0	188.0	18.0
		Medium gray green, weakly foliated HFxl with 25 to 30%										
		light green translucent hornblende needles to 2mm.										
		often cryptic very fine grained to aphanitic matrix;										
		common foliation to 40 to 50 degrees. ALTERATION-										
		strong pervasive sericite, K-spar. Moderate patchy										
		calcite stockwork with rare quartz weak wispy										
		chlorite. Slightly taxitic maybe indicative and										
		fracture fill fragment ?										
	<157.70-157.80>	MASSIVE SULPHIDE VEIN										
		vein 40°										
		1cm. pyrite/arsenopyrite layered vein at 40 degrees.										
	<161.90-162.20>	calcite vein										
		2.5cm calcite tension fracture at 25 degrees.										
	<162.20-163.68>	Biotite Hbl Fdsp xtalline										
		Greenish-gray										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Intense MS pervasive Strongly sericitized BHF1 with 10% subhedral likely augite rather than biotite phenos. May be intensely altered gabbro.										
163.68	173.46	mudstone Fine grained, black, crystalline, foliated foliated 40°:cleavage, foliation 40° Frs=20/m :Vns =18/m Weak CB patches Weak MS pervasive Weak MT pervasive Trace PY disseminated Moderate CV macroveins Weak QC macroveins Black to dark gray green mudstone intercalibrated with HFxl, also black, irregular foliation at 40 degrees. Coarser grained unit, likely HFxl from 169.8 to 173.46m., possible subhedral ? hornblende needles very fine grained matrix. 2 calcite +/- quartz veins to 12cm. per meter with less irregular stockwork and patches, weak pervasive sericite, weak to moderate pervasive magnetite.	51020	163.68-165.00	1.32	0.005	0.20	18.0	101.0	30.0	47.0	8.0
			51021	165.00-166.50	1.50	0.005	0.20	25.0	149.0	255.0	71.0	14.0
			51022	166.50-168.00	1.50	0.005		26.0	143.0	40.0	75.0	12.0
			51023	168.00-169.50	1.50	0.005	0.20	27.0	149.0	60.0	65.0	14.0
			51024	169.50-171.00	1.50	0.005	0.40	23.0	99.0	45.0	99.0	28.0
			51025	171.00-172.50	1.50	0.010	0.80	21.0	130.0	75.0	327.0	36.0
		<163.68-164.90> Broken Core Strong angular broken core, to rubbly angular, trace fine grained gouge, irregular fracture orientation.										
		<165.95-166.12> gouge gouge 35° Medium grained calcareously cemented black gouge at 35 degrees.										
173.46	221.78	Hornblende Feldspar xtalline Fine grained, green, mottled, foliated foliated 40° Frs=10/m :Vns =15/m Weak CL wispy Moderate CB patches Strong MS pervasive Strong KS pervasive Trace PY disseminated Weak CV macroveins Weak QC stockwork Medium to light green to gray green HFxl with 25% light green translucent to cream hornblende phenos to 2mm., very fine grained to aphanitic matrix. Local	51026	172.50-173.50	1.00	0.020	1.20	26.0	165.0	40.0	344.0	46.0
			51027	173.50-175.00	1.50	0.005	1.40	20.0	67.0	95.0	101.0	22.0
			51028	175.00-176.50	1.50	0.005	1.60	26.0	79.0	15.0	91.0	14.0
			51029	176.50-178.00	1.50	0.005	1.60	22.0	70.0	20.0	102.0	18.0
			51030	178.00-179.50	1.50	0.005	0.80	23.0	63.0	25.0	84.0	18.0
			51031	179.50-181.00	1.50	0.010	0.60	18.0	44.0	65.0	62.0	30.0
			51032	181.00-182.50	1.50	0.025	1.80	23.0	71.0	220.0	194.0	160.0
			51033	182.50-184.00	1.50	0.010	2.20	20.0	69.0	90.0	227.0	200.0
			51034	184.00-185.50	1.50	0.040	2.20	22.0	71.0	110.0	164.0	110.0
			51035	185.50-187.00	1.50	0.010	2.20	23.0	61.0	125.0	202.0	94.0
			51036	187.00-188.50	1.50	0.005	2.40	21.0	60.0	150.0	226.0	62.0
			51037	188.50-190.00	1.50	0.005	2.80	23.0	71.0	95.0	284.0	72.0
			51038	190.00-191.50	1.50	0.005	1.40	25.0	73.0	35.0	352.0	38.0
			51039	191.50-193.00	1.50	0.010	19.00	29.0	128.0	65.0	3936.0	5070.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	possible elongate augites. ALTERATION- strong	51040	193.00-194.50	1.50	0.005	2.60	34.0	107.0	125.0	323.0	82.0
	pervasive sericite, K-spar, weak wispy chlorite, weak	51041	194.50-196.00	1.50	0.005	2.40	38.0	120.0	85.0	143.0	48.0
	to moderate calcite +/- quartz irregular microveins	51042	196.00-197.50	1.50	0.005	2.60	36.0	130.0	130.0	349.0	80.0
	stockwork and patches, pervasive hematite near lower	51043	197.50-199.00	1.50	0.005	1.40	28.0	91.0	85.0	162.0	50.0
	contact. Local mottled texture may be indicative of	51044	199.00-200.50	1.50	0.005	1.00	34.0	114.0	50.0	106.0	34.0
	possible fragmental, not likely, however. foliation	51045	200.50-202.00	1.50	0.010	2.80	30.0	114.0	25.0	635.0	182.0
	quite contorted but generally 35 to 45 degrees.	51046	202.00-203.50	1.50	0.005	3.00	26.0	106.0	60.0	845.0	116.0
	Possible fuchsite around 200m.	51047	203.50-205.00	1.50	0.005	3.20	27.0	88.0	45.0	866.0	132.0
<174.00-176.00>	foliated 45°										
	Foliated HFxl at 45 degrees.										
<185.50-187.40>	foliated 40°										
	Foliation at 40 degrees.										
<187.40-189.80>	Intense MT disseminated										
	MINERALIZATION- 5% fine grained disseminated pyrite.										
<187.40-189.80>	sericite/pyrite foliation										
	foliated 35°										
	Foliated pyrite and sericite at 35 degrees.										
	MINERALIZATION- 5% fine grained disseminated pyrite.										
<194.80-196.50>	?? MT patches										
	MINERALIZATION- 8% fine grained patchy pyrite with										
	less dissemination.										
<194.80-196.50>	sericite/pyrite foliation										
	Irregularly foliated pyrite and sericite.										
	MINERALIZATION- 8% fine grained pyrite with less										
	dissemination.										
<199.90-200.65>	Broken Core										
	Weak broken core with trace fine grained gouge.										
<202.50-202.65>	?? MT disseminated										
	MINERALIZATION- 0.4% red to brown sphalerite, 0.6%										
	fine grained disseminated pyrite.										
<202.50-202.65>	VEINED & DISSEMINATED SULPHIDE										
	MINERALIZATION- 0.4% red to brown sphalerite, 0.6%										
	fine grained disseminated pyrite.										
<210.96-211.85>	Semi-massive hematite	51048	205.00-206.50	1.50	0.005	2.20	23.0	71.0	75.0	742.0	170.0
	foliated 55°	51049	206.50-208.00	1.50	0.005	2.40	27.0	98.0	75.0	243.0	130.0
	Strong CB patches	51050	208.00-209.50	1.50	0.005	3.60	25.0	91.0	65.0	353.0	100.0
	Strong HE pervasive	51051	209.50-210.96	1.46	0.005	2.00	19.0	50.0	20.0	210.0	60.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong wine red pervasiv hematite darker red than H-zone within contacted foliation at 55 degrees. Strong patchy calcite.										
		<212.00-213.85> Trace MT patches	51052	210.96-212.00	1.04	0.005	0.40	11.0	21.0		59.0	12.0
		MINERALIZATION- 10% fine grained to very fine grained patchy pyrite; parallel with irregular contorted foliation with strong pervasive chlorite.	51053	212.00-213.00	1.00	0.025	1.80	33.0	144.0	5.0	197.0	42.0
		<212.00-213.85> VEINED & DISSEMINATED SULPHIDE Strong SI pervasive MINERALIZATION- 10% fine grained to very fine grained patchy pyrite; parallel with irregular contorted foliation with strong pervasive chlorite.										
		<217.50-218.45> Semi-massive hematite	51054	213.00-214.00	1.00	0.040	1.20	31.0	135.0	15.0	139.0	30.0
		Moderate HE pervasive	51055	214.00-215.00	1.00	0.030	1.20	25.0	163.0		118.0	26.0
		Strong CV stockwork	51056	215.00-216.00	1.00	0.010	1.40	24.0	167.0	10.0	80.0	28.0
		Moderate pervasive wine coloured hematite; darker red hematite H-zone. Strong calcite stockwork.	51057	216.00-217.00	1.00	0.010	1.00	27.0	140.0	20.0	124.0	30.0
			51058	217.00-218.00	1.00	0.005	0.40	17.0	30.0		94.0	10.0
		<220.80-221.78> Intense MS pervasive	51059	218.00-219.00	1.00	0.005	0.40	11.0	13.0		73.0	12.0
		Intense pervasive sericite.	51060	219.00-220.00	1.00	0.005	15.40	22.0	176.0	85.0	3111.0	3384.0
221.78	224.64	rubbly fault zone	51061	220.00-221.00	1.00	0.005	0.80	20.0	33.0	15.0	85.0	20.0
		Dark gray, gouge, foliated	51062	221.00-221.78	0.78	0.010	0.60	15.0	26.0	90.0	74.0	16.0
		gouge 60°:foliated 35°	51063	221.78-224.64	2.86	0.015	1.00	14.0	89.0	325.0	289.0	18.0
		Weak SI pervasive										
		Strong CB patches										
		Moderate MS pervasive										
		Trace PY disseminated										
		Strong gougy fault zone, likely oriented at 60 degrees, overprinted on black mudstone? black HFxl? Irregular foliation from 35 to 60 degrees, strong blackened broken core throughout, moderate pervasive silica near upper contact, moderate patchy sericite, strong patchy calcite. Likely camp gully fault.										
224.64	230.43	gabbro	51064	224.64-226.00	1.36	0.030	0.40	24.0	30.0	95.0	25.0	8.0
		Medium grained, dark green, porphyritic, bleached	51065	226.00-227.50	1.50	0.005	2.60	39.0	149.0	40.0	128.0	10.0
		Frs=15/m :Vns =5/m	51066	227.50-229.00	1.50	0.030	1.60	30.0	389.0	25.0	55.0	8.0
		Moderate SI disseminated	51067	229.00-230.43	1.43	0.005	0.20	26.0	310.0		39.0	10.0
		Strong CL pervasive										
		Weak CB patches										
		Trace MT pervasive										
		Weak PY patches										
		Weak QV stockwork										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Light green to dark green gabbro bleached near upper contact due to fault zone with 78% dub to euhedral augite phenos to 1cm. taxitic unknown anhedral irregular silicified blebs? common for gabbro up to 20%, decreasing towards lower contact, subhedral light gray plagiocryst phenos to 4mm. very fine grained matrix. ALTERATION- strong pervasive chlorite, weak patchy epidote, trace pervasive magnetite. Increasing chlorite towards lower contact. MINERALIZATION- 2% irregular patchy fine grained pyrite, irregular gray quartz veins near upper contact.										
<224.64-230.43>		Weak MT patches MINERALIZATION- 2% irregular patchy fine grained pyrite, irregular gray quartz near upper contact.										
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-47

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-47	Date Completed:		Geotech by: MBW
LENGTH: 196.29	Core Diam: BQTK		

Collar Location

Latitude:	1825.00
Departure:	1997.00
Elevation:	1265.00

S U M M A R Y

0.00-0.34	CASING
0.34-17.00	Hornblende Feldspar xtalline **
17.00-24.50	Hornblende Feldspar xtalline
24.50-32.00	Biotite Hbl Fdsp xtalline
32.00-33.80	Hornblende Feldspar xtalline
33.80-70.00	Hornblende Feldspar xtalline ****
70.00-98.30	Hornblende Feldspar xtalline ***
98.30-105.00	Biotite Hbl Fdsp xtalline *
105.00-132.59	Hornblende Feldspar xtalline **
132.59-134.70	ANDESITE *
134.70-148.60	Hornblende Feldspar xtalline ***
148.60-163.00	volcaniclastics **
163.00-177.64	Hornblende Feldspar xtalline **
177.64-180.18	tuff *
180.18-184.50	rubbly fault zone *
184.50-196.29	gabbro

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	0.34	CASING Casing.										
0.34	17.00	Hornblende Feldspar xtalline	51072	0.34-1.00	0.66	0.065	0.60	182.0	174.0	12.0		31.0
		Fine grained, redish-green, crystalline, stockwork	51073	1.00-2.00	1.00	0.070	10.00	14.0	5.0	16.0	1.0	29.0
		Frs=25/m :Vns =25/m	51074	2.00-3.00	1.00	0.270	15.00	42.0	237.0	16.0	1.0	23.0
		Trace SI patches	51075	3.00-4.00	1.00	0.045	0.40	338.0	159.0	14.0		20.0
		Moderate CL pervasive	51076	4.00-5.00	1.00	0.155	0.20	229.0	153.0	8.0		18.0
		Moderate MS patches	51077	5.00-6.00	1.00	0.010	3.00		143.0	12.0		19.0
		Strong KS pervasive	51078	6.00-7.00	1.00	0.010	5.00	42.0	196.0	12.0	1.0	15.0
		Moderate HE stockwork	51079	7.00-8.00	1.00	0.010	6.00	114.0	180.0	6.0	1.0	15.0
		Weak QC stockwork	51080	8.00-9.50	1.50	0.005	6.00	134.0	10.0	26.0	2.0	18.0
		Hematite stockwork zone within HFxl with 25% light to	51081	9.50-11.00	1.50	0.015	7.00	73.0	75.0	24.0	2.0	15.0
		dark green subhedral hornblende laths and needles to	51082	11.00-12.50	1.50	0.010	6.00	27.0	20.0	8.0	2.0	9.0
		2mm very fine grained to aphanitic matrix. ALTERATION-	51083	12.50-14.00	1.50	0.015	0.20	144.0	50.0	12.0	3.0	9.0
		moderate pervasive and fracture fill chlorite, strong	51084	14.00-15.50	1.50	0.005	0.40	145.0	35.0	8.0	2.0	11.0
		to weak pervasive with less microfracture controlled	51085	15.50-17.00	1.50	0.020	5.00	107.0	10.0	8.0	2.0	13.0
		hematite, local weak patchy silica, likely strong										
		pervasive K-spar. Local weak patchy pervasive										
		sericite, weak limonite fracture fill throughout local										
		weak malachite fracture fill, weak										
		quartz/calcite/chlorite stockwork, generally										
		irregular.										
	<0.34-6.20>	Semi-massive hematite foliated 30° Weak SI patches Moderate KS patches Strong HE pervasive										
		Strong pervasive hematite, weak patchy silica and										
		K-spar. Hematite often foliated at 30 degrees to core										
		axis.										
	<0.40-17.00>	Broken Core										
		Weak angular to subangular broken core; moderate										
		limonite fracture fill, irregular fracture										
		orientation, local calcite leaching.										
	<2.00-2.06>	?? MT disseminated										
		MINERALIZATION- trace disseminated pyrite.										
	<2.00-2.06>	VEINED & DISSEMINATED SULPHIDE										
		Weak malachite fracture fill. MINERALIZATION- trace										
		disseminated pyrite.										
	<9.40-15.30>	Trace MT disseminated										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- 1% wispy disseminated pyrite, trace local malachite fracture fill.										
<9.40-15.30>		VEINED & DISSEMINATED SULPHIDE MINERALIZATION- 1% wispy disseminated pyrite, trace local malachite fracture fill.										
<16.10-16.90>		Chlorite Streaming foliated 30° Moderate CL SHEETED Moderate chlorite streaming, weakly foliated at 30 degrees, irregular rhodonite looking calcite within hematite patches.										
17.00	24.50	Hornblende Feldspar xtalline	51086	17.00-18.50	1.50	0.265	8.00	58.0	10.0	6.0		13.0
		Fine grained, green, massive, crystalline	51087	18.50-20.00	1.50	0.010	0.20	80.0	10.0	36.0		12.0
		cleavage, foliation 85°	51088	20.00-21.50	1.50	0.005	9.00	41.0	25.0	18.0	1.0	15.0
		Frs=7/m :Vns =30/m	51089	21.50-23.00	1.50	0.005	7.00	21.0	10.0	8.0		21.0
		Strong CL pervasive	51090	23.00-24.50	1.50	0.015	9.00	63.0	25.0	18.0	5.0	16.0
		Moderate MS pervasive										
		Strong KS pervasive										
		Trace EP disseminated										
		Moderate CV microveins										
		Medium green HFxl with 25% light to dark green, locally cream and light gray subhedral hornblende phenos to 2mm. rare local subhedral biotites, very fine grained to aphanitic matrix. ALTERATION- moderate to strong pervasive chlorite, likely strong pervasive K-spar, moderate pervasive sericite, moderate calcite stockwork at 85 degrees, commonly with chlorite, locally with hematite. Lower contact=graduational.										
<19.10-19.39>		rubbly fault zone Strong gougy broken core, medium grained gouge, moderate limonite fracture fill, irregular fracture orientation.										
24.50	32.00	Biotite Hbl Fdsp xtalline	51091	24.50-26.00	1.50	0.005	6.00	27.0	10.0	18.0	1.0	26.0
		Green, crystalline	51092	26.00-27.50	1.50	0.010	8.00	6.0	35.0	10.0	2.0	11.0
		qz-carb veining 85°	51093	27.50-29.00	1.50	0.005	6.00	7.0	15.0	12.0	2.0	20.0
		Frs=9/m :Vns =30/m	51094	29.00-30.50	1.50	0.005	7.00	10.0	20.0	10.0	2.0	10.0
		Moderate CL pervasive	51095	30.50-32.00	1.50	0.005	7.00	4.0	59.0	10.0	2.0	17.0
		Moderate MS pervasive										
		Moderate KS pervasive										
		Moderate CV microveins										
		Weak QC microveins										
		Medium green BHFl with 3% sub to euhedral cream to										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		light gray biotite phenos to 3mm., 20% light to dark green to cream hornblende phenos to 2.5mm. very fine grained to aphanitic matrix. ALTERATION- moderate to strong pervasive chlorite, K-spar, moderate pervasive sericite, moderate calcite stockwork at 85 degrees, commonly with quartz/calcite. Lower contact=indistinct.										
32.00	33.80	Hornblende Feldspar xtalline Fine grained, green, crystalline, broken foliated 50°:contact 50° Frs=20/m :Vns =15/m Moderate CL pervasive Moderate MS pervasive Moderate KS pervasive Weak CV stockwork Medium green HFxl with 25% light to dark green to cream subhedral hornblende needles to 2mm., very fine grained to aphanitic matrix. ALTERATION- moderate to strong pervasive chlorite, K-spar foliated near lower contact at 50 degrees, moderate pervasive light green sericite, weak to moderate irregular calcite stockwork. Lower contact=sharp at 50 degrees.	51096	32.00-33.00	1.00	0.010	11.00	42.0	10.0	10.0	1.0	8.0
<32.40-33.80>		Broken Core Moderate angular broken core, generally at shallow angle to core axis, local fine grained gouge, likely weak fault slips.										
33.80	70.00	Hornblende Feldspar xtalline Redish-green, stockwork, mottled qz-carb veining 75° Frs=12/m :Vns =40/m Weak SI patches Strong CL pervasive Moderate MS patches Weak MT pervasive Moderate KS pervasive Moderate HE pervasive Moderate QC microveins Dark green to red green HFxl host to H-zone? 20% light to dark green, commonly cream subhedral hornblende needles to 2.5mm., very fine grained to aphanitic matrix. ALTERATION- strong dark green to blackish pervasive chlorite, moderate to strong pervasive red to blackish hematite, local moderate pervasive magnetite, local weak patchy silica, strong calcite	51097	33.00-34.00	1.00	0.030	10.00	87.0	35.0	14.0	2.0	11.0
			51098	34.00-35.00	1.00	0.005	11.00	98.0	10.0	16.0	1.0	7.0
			51099	35.00-36.00	1.00	0.005	7.00	157.0	5.0	14.0		8.0
			51100	36.00-37.00	1.00	0.005	8.00	134.0	61.0	14.0		6.0
			51101	37.00-38.00	1.00	0.050	0.60	682.0	5.0	18.0		11.0
			51102	38.00-39.00	1.00	0.010	6.00	249.0	54.0	18.0		6.0
			51103	39.00-40.00	1.00	0.065	0.60	865.0	25.0	98.0	4.0	12.0
			51104	40.00-41.00	1.00	0.005	10.00	126.0	10.0	60.0	2.0	9.0
			51105	41.00-42.00	1.00	0.055	0.20	318.0	20.0	22.0	1.0	11.0
			51106	42.00-43.00	1.00	0.010	15.00	151.0	20.0	22.0	2.0	11.0
			51107	43.00-44.00	1.00	0.080	0.60	1078.0	217.0	22.0	9.0	8.0
			51108	44.00-45.00	1.00	0.325	0.20	317.0	95.0	6.0	2.0	9.0
			51109	45.00-46.00	1.00	0.020	12.00	288.0	10.0	8.0	2.0	19.0
			51110	46.00-47.00	1.00	0.235	16.00	74.0	10.0	18.0	5.0	25.0
			51111	47.00-48.00	1.00	0.065	20.00	136.0	10.0	14.0	4.0	14.0
			51112	48.00-49.00	1.00	0.110	8.00	160.0	102.0	16.0	7.0	22.0
			51113	49.00-50.00	1.00	0.005	0.60	470.0	109.0	16.0	4.0	22.0
			51114	50.00-51.00	1.00	0.160	12.00	66.0	15.0	12.0	3.0	18.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	+/- quartz +/- chlorite stockwork at 75 degrees, less	51115	51.00-52.00	1.00	0.440	15.00	96.0	142.0	10.0	3.0	10.0
	magnetite than observed on surface, moderate patchy	51116	52.00-53.00	1.00	0.005	0.20	305.0	102.0	6.0		11.0
	light gray green to olive green sericite, increasing	51117	53.00-54.00	1.00	0.005	0.20	262.0	51.0	12.0		6.0
	towards lower contact, local malachite fracture fill	51118	54.00-55.00	1.00	0.005	0.20	115.0	10.0	32.0	1.0	7.0
	and calcopyrite within quartz/calcite stockwork.	51119	55.00-56.00	1.00	0.020	0.40	45.0	5.0	88.0		7.0
<39.35-39.55>	MASSIVE SULPHIDE VEIN										
	2cm pyrite vein at 50 degrees, trace calcopyrite,										
	moderate broken core with limonite fracture fill.										
<41.90-43.60>	Moderate MT pervasive										
	Moderate pervasive magnetite.										
<45.05-45.30>	.2% chalcopyrite - disseminated										
	MINERALIZATION- trace disseminated calcopyrite, weak										
	malachite fracture fill.										
<45.05-45.30>	VEINED & DISSEMINATED SULPHIDE										
	MINERALIZATION- trace disseminated calcopyrite, weak										
	malachite fracture fill.										
<46.14-46.30>	Semi-massive hematite										
	Intense pervasive hematite, no magnetite.										
<48.30-48.40>	hematite vein										
	1cm. magnetite/hematite vein at 50 degrees.										
<49.08-49.18>	3 % chalcopyrite - disseminated										
	MINERALIZATION- 3% disseminated calcopyrite.										
<49.08-49.18>	VEINED & DISSEMINATED SULPHIDE										
	qz-carb veining 40°										
	1cm. calcite/quartz vein at 40 degrees with patchy										
	calcopyrite. MINERALIZATION- 3% disseminated										
	calcopyrite.										
<56.10-56.50>	2 % chalcopyrite - disseminated										
	MINERALIZATION- 2% disseminated calcopyrite.										
<56.10-56.50>	VEINED & DISSEMINATED SULPHIDE										
	MINERALIZATION- 2% disseminated calcopyrite.										
<57.00-63.95>	Strong MS pervasive	51120	56.00-57.00	1.00	0.125	0.80	1793.0	10.0	10.0	1.0	6.0
	Weak HE stockwork	51121	57.00-58.00	1.00	0.005	0.80	292.0	25.0	38.0	1.0	10.0
	Weak patchy stockwork hematite, strong pervasive light	51122	58.00-59.00	1.00	0.005		574.0	15.0	52.0	1.0	9.0
	green sericite.	51123	59.00-60.00	1.00	0.005	0.20	228.0	5.0	36.0		6.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<61.60-61.80>		Moderate MT patches	51125	60.00-61.00	1.00	0.010	6.00	62.0	10.0	46.0	7.0	8.0
		MINERALIZATION- 3% fine grained granular pyrite patches with moderate patchy hematite.										
<61.60-61.80>		VEINED & DISSEMINATED SULPHIDE Moderate HE patches MINERALIZATION- 3% fine grained granular pyrite patches with moderate patchy hematite.										
<63.95-67.00>		Strong CL pervasive	51126	61.00-62.00	1.00	0.005	7.00	17.0	57.0	14.0		5.0
		Strong KS patches	51127	62.00-63.00	1.00	0.005	0.20	102.0	5.0	28.0		4.0
		Moderate HE pervasive	51128	63.00-64.00	1.00	0.005	9.00	11.0	92.0	18.0		6.0
		Moderate pervasive hematite, strong pervasive black chlorite, strong patchy K-spar.	51129	64.00-65.00	1.00	0.005	10.00	19.0	91.0	24.0		10.0
			51130	65.00-66.00	1.00	0.005	0.20	15.0	88.0	14.0		11.0
70.00	98.30	Hornblende Feldspar xtalline	51131	66.00-67.00	1.00	0.005	8.00	5.0	102.0	12.0		7.0
		Fine grained, green, massive, broken	51132	67.00-68.00	1.00	0.005	8.00		5.0	12.0		8.0
		Frs=18/m :Vns =4/m	51133	68.00-69.00	1.00	0.010	7.00	21.0	85.0	14.0		12.0
		Trace SI pervasive	51134	69.00-70.00	1.00	0.005	10.00	9.0	128.0	10.0		8.0
		Moderate CL pervasive	51135	70.00-71.00	1.00	0.030	0.40	4.0	106.0	16.0		7.0
		Moderate MS pervasive	51136	71.00-72.50	1.50	0.005	14.00	20.0	5.0	18.0		7.0
		Strong KS pervasive	51137	72.50-74.00	1.50	0.005	11.00	9.0	15.0	16.0		6.0
		Trace HE disseminated	51138	74.00-75.50	1.50	0.005	0.20	38.0	10.0	12.0		5.0
		Weak PY disseminated	51139	75.50-77.00	1.50	0.005	0.20	35.0	10.0	18.0		7.0
		Medium green HFxl fairly massive, fine grained to	51140	77.00-78.50	1.50	0.005	0.20	27.0	5.0	26.0		6.0
		medium grained with 20 to 25% dark green to light	51141	78.50-80.00	1.50	0.015	0.60	42.0	15.0	68.0	2.0	12.0
		green translucent to cream subhedral hornblende	51142	80.00-81.50	1.50	0.015	0.40	24.0	15.0	66.0	5.0	12.0
		needles to 2mm., commonly cryptic, very fine grained	51143	81.50-83.00	1.50	0.070	0.40	30.0	20.0	36.0	2.0	15.0
		to aphanitic matrix. ALTERATION- moderate pervasive,	51144	83.00-84.50	1.50	0.050	0.60	48.0	35.0	42.0	7.0	9.0
		wispy and fracture fill chlorite, moderate pervasive	51145	84.50-86.00	1.50	0.010	0.20	42.0	25.0	48.0	2.0	7.0
		light green sericite, likely strong to moderate	51146	86.00-87.50	1.50	0.060	0.60	100.0	45.0	22.0	4.0	21.0
		K-spar, traces of disseminated pyrite and hematite,	51147	87.50-89.00	1.50	0.025	0.80	136.0	20.0	26.0	5.0	15.0
		latter generally with calcite patches, patchy weak	51148	89.00-90.50	1.50	0.110	0.40	121.0	35.0	36.0	10.0	17.0
		pervasive silica towards lower contact, weak to trace	51149	90.50-91.50	1.00	0.040	0.60	95.0	15.0	50.0	24.0	20.0
		quartz/calcite veins, 2 per meter, weak to moderate	51150	91.50-93.00	1.50	0.045		72.0	15.0	44.0	22.0	17.0
		broken core throughout unit, local cream augite	51151	93.00-94.50	1.50	0.015	0.60	61.0	20.0	82.0	9.0	18.0
		phenos.	51152	94.50-96.00	1.50	0.010	12.00	123.0	10.0	18.0	2.0	13.0
<70.30-72.40>		Trace MT disseminated										
		MINERALIZATION- 1% fine grained to medium grained disseminated pyrite with less granular patches.										
<70.30-72.40>		qz-carb veining 40° Moderate QC microveins										
		Moderate quartz/calcite veins to 1cm., about 12 per meter, weak patchy hematite. MINERALIZATION- 1% fine grained to medium grained disseminated pyrite with										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		less granular patches.										
		<72.40-75.30> Broken Core fracturing 10° Weak broken core with weak limonite fracture fill; fractures at low angles to core axis, generally about 10 degrees.										
		<78.75-86.00> Trace MT disseminated MINERALIZATION- 1% disseminated pyrite with weak disseminated hematite with less patchy and rare quartz/calcite veins, pyrite is commonly oxidized.										
		<78.75-86.00> VEINED & DISSEMINATED SULPHIDE Weak HE disseminated MINERALIZATION- 1% disseminated pyrite with weak disseminated hematite with less patchy and rare quartz/calcite veins, pyrite is commonly oxidized.										
		<85.70-89.70> Broken Core Weak to moderate angular to subangular broken core with weak limonite fracture fill, local moderate bleaching in calcite leaching, irregular fracture fill orientation.										
		<88.00-93.10> Strong MT patches MINERALIZATION- 4% pyrite as irregular fine grained granular patches and disseminations.										
		<88.00-93.10> VEINED & DISSEMINATED SULPHIDE MINERALIZATION- 4% pyrite as irregular fine grained granular patches and disseminations.										
		<88.50-89.30> Weak SI pervasive Weak pervasive silica.										
		<94.15-94.20> Chlorite Streaming sheeting 50° Strong CL matrix 4cm. chlorite breccia or strong chlorite streaming at 50 degrees.										
98.30	105.00	Biotite Hbl Fdsp xtalline	51153	96.00-97.50	1.50	0.040	0.20	61.0	15.0	14.0	3.0	13.0
		Green, crystalline	51154	97.50-99.00	1.50	0.050	12.00	38.0	25.0	20.0	8.0	8.0
		Frs=8/m :Vns =12/m	51155	99.00-99.50	0.50	0.205	0.20	68.0	25.0	18.0	2.0	6.0
		Strong CL pervasive	51156	99.50-101.00	1.50	0.005	9.00	30.0	10.0	16.0	2.0	5.0
		Weak MS pervasive	51157	101.00-102.50	1.50	0.005	9.00	46.0	20.0	16.0	2.0	5.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate KS pervasive	51158	102.50-104.00	1.50	0.005	7.00	45.0	10.0	16.0	2.0	6.0
		Trace PY disseminated										
		Weak CV stockwork										
		Medium to dark green BHFl with 3 to 6% platy light										
		gray, sub to euhedral biotite phenos to 4mm., 25%										
		light to dark green commonly cream subhedral										
		hornblende laths and needles to 2mm., very fine										
		grained matrix. ALTERATION- moderate to strong										
		pervasive chlorite, increasing towards lower contact,										
		weak to moderate pervasive light green sericite, weak										
		irregular calcite stockwork, indistinct lower contact.										
	<98.50-99.60>	Trace MT disseminated										
		MINERALIZATION- 1.5% disseminated pyrite, commonly										
		oxidized.										
	<98.50-99.60>	MINERALIZATION- 1.5% disseminated pyrite, commonly										
		oxidized.										
	<99.65-100.00>	Broken Core										
		fracturing 90°										
		Moderate broken core with 3% fine grained gouge, may										
		be drill cuttings, fractures commonly at 90 degrees.										
	<104.18-104.23>	QUARTZ-CALCITE VEINS										
		microveins 60°										
		Intense KS selvages										
		Moderate EP microveins										
		7mm. quartz/epidote/calcite vein at 60 degrees with										
		intense medium gray K-spar selvage.										
105.00	132.59	Hornblende Feldspar xtalline	51159	104.00-105.50	1.50	0.005	9.00	20.0	10.0	14.0	1.0	8.0
		Fine grained, green, foliated, crystalline	51160	105.50-107.00	1.50	0.015	0.40	99.0	20.0	16.0	1.0	11.0
		foliated 65°;stringer 45°	51161	107.00-108.50	1.50	0.240	0.40	134.0	25.0	22.0	2.0	15.0
		Frs=9/m :Vns =20/m	51162	108.50-110.00	1.50	0.745	0.40	111.0	25.0	14.0	1.0	16.0
		Strong CL pervasive	51163	110.00-111.50	1.50	0.035	18.00	51.0	40.0	10.0	2.0	6.0
		Moderate CB SHEETED	51164	111.50-113.00	1.50	0.005	0.80	95.0	70.0	46.0	5.0	10.0
		Weak MS pervasive	51165	113.00-114.50	1.50	0.020	0.60	102.0	115.0	66.0	5.0	10.0
		Strong KS selvages	51166	114.50-116.00	1.50	0.005	0.40	62.0	95.0	28.0	3.0	7.0
		Weak PY patches	51167	116.00-117.50	1.50	0.040	0.60	73.0	75.0	34.0	4.0	7.0
		Moderate CV microveins	51168	117.50-119.00	1.50	0.055	0.40	62.0	125.0	30.0	3.0	7.0
		Weak QC macroveins	51169	119.00-120.50	1.50	0.015	0.40	54.0	125.0	20.0	3.0	18.0
		Medium to dark green to gray green HFxl with 20 to 25%	51170	120.50-122.00	1.50	0.990	0.80	104.0	95.0	12.0	3.0	15.0
		light to dark green locally cream hornblende phenos to	51171	122.00-123.50	1.50	0.565	0.40	163.0	75.0	342.0	137.0	34.0
		2.5mm. rare light gray platy biotite, fine grained to	51173	123.50-125.00	1.50	0.180	0.80	121.0	65.0	12.0	9.0	22.0
		very fine grained to aphanitic matrix. ALTERATION-	51174	125.00-126.50	1.50	0.635	0.80	144.0	160.0	28.0	20.0	17.0
		strong to moderate pervasive chlorite, increasing	51175	126.50-128.00	1.50	0.440	17.00	101.0	45.0	10.0	5.0	39.0

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
	towards upper contact, weak light green sericite, moderate to strong pervasive K-spar, strong as 2mm, chlorite stringers, moderate calcite +/- quartz stockwork, commonly at 60 degrees, iron carbonate, quartz +/- chlorite irregular veins and vein breccias near lower contact, absent to strong foliation at 65 degrees. Lower contact=sharp at 60 degrees.	51176	128.00-129.50	1.50	0.035	18.00	26.0	20.0	8.0	3.0	26.0
		51177	129.50-131.00	1.50	0.110	0.20	73.0	15.0	4.0	4.0	30.0
		51178	131.00-132.59	1.59	0.025	0.60	214.0	15.0	10.0	5.0	21.0
<106.50-108.10>	Trace MT disseminated MINERALIZATION- 1 to 2% pyrite as fine grained disseminations with less medium grained granular patches and veins to 5mm. (one).										
<106.50-108.10>	VEINED & DISSEMINATED SULPHIDE Weak pervasive silica. MINERALIZATION- 1 to 2% pyrite as fine grained disseminations with less medium grained granular patches and veins to 5mm. (one).										
<108.30-109.97>	Broken Core fracturing 15° Weak broken core, with weak bleaching; moderate limonite fracture fill and calcite leaching, fractures common at 15 degrees.										
<109.97-110.55>	Chlorite Streaming sheeting 55° Strong chlorite streaming, irregular at 55 degrees.										
<111.10-111.90>	Biotite Hbl Fdsp xtalline Green, crystalline BHFl dyke? with 15% light gray platy biotite phenos, no observable upper contact or lower contact.										
<116.78-116.82>	Hematite/pyrite/calcite vein microveins 60° 1cm. pyrite/hematite/calcite vein at 60 degrees.										
<118.00-123.75>	MINERALIZATION- 2% pyrite.										
<118.00-123.75>	foliated 65° Strong CL foliated Moderate CB foliated Strong KS foliated Weak QC foliated Strongly foliated chlorite/calcite/quartz/K-spar at 65 degrees, local traces disseminated hematite. MINERALIZATION- 2% pyrite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<125.25-129.00> VEINED & DISSEMINATED SULPHIDE stringer MINERALIZATION- 6% coarse grained to fine grained granular pyrite as patches with calcite/chlorite +/- pyrite stringers to 3mm. with 1cm. K-spar selvages, local weak disseminated hematite, common salt and pepper texture.										
		<129.40-130.75> QUARTZ VEIN :Vns =8/m Strong SI macroveins Strong CB macroveins Irregular quartz/iron-carbonate vein breccia, no consistent orientation, maybe moderately dipping to 4cm. wide, average 3 per meter.										
132.59	134.70	ANDESITE Green, flowbanded flowbanded 60°:contact 60° Frs=5/m Strong MT pervasive Medium to dark green to dark gray to brown near contacts, andesite dyke? Generally stained strong K-spar, so probably not andesite, fine grained dark green pyroxene phenos to 2% strong pervasive magnetite, flow bedding at contacts at 60 degrees.	51179	132.59-134.70	2.11	0.005	17.00	13.0	15.0	12.0		17.0
		<132.86-133.20> Hornblende Feldspar xtalline foliated 60° Dark green HFxl fragments foliated at 60 degrees with chlorite and iron-carbonate.										
		<133.85-133.9[illegible]MINERALIZATION- 1% calcopyrite.										
		<133.85-133.95> VEINED & DISSEMINATED SULPHIDE 1mm. hematite/calcopyrite stringer at 25 degrees. MINERALIZATION- 1% calcopyrite.										
134.70	148.60	Hornblende Feldspar xtalline Fine grained, dark green, foliated, mottled Frs=6/m :Vns =35/m Strong CL pervasive Moderate CB patches Weak MS pervasive Moderate KS pervasive Trace PY disseminated	51180 51181 51182 51183 51184 51185 51186 51187	134.70-136.00 136.00-137.50 137.50-139.00 139.00-140.50 140.50-142.00 142.00-143.50 143.50-145.00 145.00-146.50	1.30 1.50 1.50 1.50 1.50 1.50 1.50 1.50	0.020 0.020 0.005 0.015 0.005 0.005 0.005 0.005	0.80 0.20 0.60 22.00 0.20 31.00 26.00	206.0 150.0 91.0 96.0 51.0 145.0 165.0 96.0	30.0 45.0 30.0 20.0 10.0 20.0 5.0 87.0	24.0 16.0 14.0 40.0 32.0 34.0 18.0 14.0	5.0 10.0 6.0 6.0 4.0 3.0 5.0 3.0	25.0 21.0 28.0 15.0 18.0 18.0 20.0 4.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Moderate CV stockwork	51188	146.50-148.00	1.50	0.005	20.00	40.0	92.0	18.0	3.0	7.0
	Moderate QC stockwork										
	Possible graduational contact into fragmental unit, dark green HFxl with 25% light to dark green commonly cryptic hornblende phenos to 2mm. Foliated near upper contact, gets into strongly mottled near lower contact. Some possible irregular fragments, no difference in crystal size. However, possible alteration feature. ALTERATION- strong to intense pervasive chlorite, moderate eprvasive K-spar, moderate to strong irregular calcite +/- quartz stockwork. Foliation moderate shallow irregular. Lower contact=indistinct.										
<134.90-139.00>	?? MT disseminated										
	MINERALIZATION- 6% fine grained disseminated and sheeted pyrite, with less granular patches with calcite. Lower contact=broken core. May possibly be HFxl and fragmental contact.										
<134.90-139.00>	VEINED & DISSEMINATED SULPHIDE										
	Moderate CL pervasive										
	Moderate MS pervasive										
	Trace HE stringer										
	Strong QC stockwork										
	Foliated HFxl with moderate pervasive chlorite, moderate pervasive sericite. MINERALIZATION- 6% fine grained disseminated and sheeted pyrite, with less granular patches with calcite. Lower contact=broken core. May possibly be HFxl and fragmental contact.										
<139.00-139.50>	Broken Core										
	foliated 75°										
	Weak to moderate broken core with strong limonite fracture fill with strong chlorite/sericite foliation at 75 degrees +/- quartz and calcite. May be contact between fragmental and HFxl.										
<142.40-147.00>	Moderate MT disseminated										
	MINERALIZATION- 3% fine grained disseminated pyrite.										
<142.40-147.00>	VEINED & DISSEMINATED SULPHIDE										
	MINERALIZATION- 3% fine grained disseminated pyrite.										
<147.00-147.12>	Strong MT disseminated										
	MINERALIZATION- 4% fine grained disseminated pyrite with weak disseminated hematite, foliated at 40										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		degrees.										
		<147.00-147.12> VEINED & DISSEMINATED SULPHIDE foliated 40° Weak HE disseminated MINERALIZATION- 4% fine grained disseminated pyrite with weak disseminated hematite, foliated at 40 degrees.										
148.60	163.00	volcaniclastics	51189	148.00-149.50	1.50	0.005	20.00	96.0	81.0	36.0	4.0	8.0
		Medium grained, dark green, mottled, crystalline	51190	149.50-151.00	1.50	0.005		392.0	152.0	20.0	4.0	20.0
		Frs=10/m :Vns =25/m	51191	151.00-152.00	1.00	0.010		607.0	25.0	18.0	3.0	17.0
		Strong CL pervasive	51192	152.00-153.00	1.00	0.005	0.20	94.0	153.0	14.0	2.0	19.0
		Trace MT pervasive	51193	153.00-154.00	1.00	0.005	0.60	133.0	10.0	78.0	17.0	21.0
		Weak HE patches	51194	154.00-155.50	1.50	0.020	0.20	133.0	223.0	44.0		11.0
		Weak PY patches	51195	155.50-157.00	1.50	0.005	20.00	59.0	81.0	14.0		7.0
		Moderate CV stockwork	51196	157.00-158.50	1.50	0.005	34.00	146.0	5.0	26.0	1.0	18.0
		Weak QC stockwork	51197	158.50-160.00	1.50	0.005	34.00	125.0	106.0	22.0		40.0
		Dark to medium dark green probable fragmental with	51198	160.00-161.50	1.50	0.005	10.00	40.0	68.0	16.0		25.0
		patchy differences in grain size, but indistinct	51199	161.50-163.00	1.50	0.005	11.00	56.0	155.0	18.0		22.0
		fragments, patches with sub to anhedral lathy to boxy unknown phenos to 5mm. general mottled texture. Common light to dark green to cream hornblende phenos to 1.5mm. ALTERATION- strong patchy pervasive chlorite, weak patchy local hematite, weak local magnetite, weak patchy sericite, moderate to strong quartz/calcite stockwork. Lower contact=indistinct.										
		<149.95-153.00> Intense MT medium grained MINERALIZATION- 5% medium grained granular pyrite, generally with calcite, weak hematite patches generally with calcite, weak local pervasive magnetite, strong foliation at 30 degrees.										
		<149.95-153.00> VEINED & DISSEMINATED SULPHIDE foliated 30° Weak MT pervasive Weak HE patches MINERALIZATION- 5% medium grained granular pyrite, generally with calcite, weak hematite patches generally with calcite, weak local pervasive magnetite, strong foliation at 30 degrees.										
		<150.05-150.18> Broken Core gouge 35° Strong mushed broken core with 2mm. medium grained chlorite gouge at 35 degrees, likely weak gougy slip.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<160.00-160.30> Intense MT patches MINERALIZATION- 5% pyrite as fine grained granular patches.										
		<160.00-160.30> VEINED & DISSEMINATED SULPHIDE MINERALIZATION- 5% pyrite as fine grained granular patches.										
163.00	177.64	Hornblende Feldspar xtalline Fine grained, gray, massive, mottled sheeting 65° Frs=7/m :Vns =20/m Trace SI pervasive Weak CL wispy Strong MS patches Moderate KS pervasive Trace PY disseminated Trace PR disseminated Moderate CV stockwork Moderate QC stockwork 1 % pyrrhotite - disseminated Medium gray to green gray HFxl increasing towards upper contact with 20 to 25% light gray to green gray hornblende phenos to 1.5mm., very fine grained to aphanitic matrix. ALTERATION- moderate to weak pervasive and wispy chlorite, moderate patchy strong sericite, moderate pervasive K-spar, local weak pervasive silica. Lower contact=dramatic increase in sericite, sheeted at 65 degrees and moderate to strong calcite +/- quartz stockwork.	51200	163.00-164.50	1.50	0.005	9.00	41.0	10.0	54.0		10.0
			51201	164.50-166.00	1.50	0.005	9.00	12.0	77.0	16.0		27.0
			51202	166.00-167.50	1.50	0.005	17.00	35.0	5.0	36.0		29.0
			51203	167.50-169.00	1.50	0.005	19.00	33.0	15.0	20.0	3.0	21.0
			51204	169.00-170.50	1.50	0.005	35.00	65.0	60.0	18.0	3.0	6.0
			51205	170.50-172.00	1.50	0.005	33.00	155.0	25.0	16.0	3.0	4.0
			51206	172.00-173.50	1.50	0.005	30.00	235.0	25.0	16.0	4.0	11.0
			51207	173.50-175.05	1.55	0.005	22.00	26.0	73.0	14.0	3.0	11.0
			51208	175.05-176.50	1.45	0.005	24.00	46.0	87.0	22.0	4.0	17.0
			51209	176.50-177.64	1.14	0.005	30.00	31.0	30.0	122.0	3.0	53.0
		<167.25-168.60> Moderate MT disseminated MINERALIZATION- 3% fine grained to medium grained granular disseminated pyrite with strong K-spar and weak patchy silica selvages.										
		<167.25-168.60> VEINED & DISSEMINATED SULPHIDE MINERALIZATION- 3% fine grained to medium grained granular disseminated pyrite with strong K-spar and weak patchy silica selvages.										
		<174.92-175.05> MINERALIZATION- 10% pyrrhotite, 1% calcopyrite.										
		<174.92-175.05> SULPHIDE VEIN macroveins 15° 1.5cm. pyrrhotite/calcite vein with lesser calcopyrite										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		inconsistently at 15 degrees. MINERALIZATION= 10%. pyrrhotite, 1% calcopyrite.										
177.64	180.18	tuff Aphanitic, grayish-black, foliated foliated 65° Frs=6/m Trace CL wispy Strong CB SHEETED Strong MS SHEETED Weak KS patches Trace HE disseminated Strongly foliated light green gray tuff or strongly sericite altered HFxl, dark gray to black foliated and fragmented mudstone? ALTERATION- intense sheeted sericite in upper tuff, decreasing towards lower contact. Strongly sheeted carbonate, mostly calcite, trace wispy chlorite. FOLIATION- commonly at 65 degrees. MINERALIZATION- 2% disseminated pyrite, typical sediments near gully fault.	51210 51211	177.64-178.84 178.84-180.00	1.20 1.16	0.010 0.005	15.00 0.80	35.0 122.0	15.0 15.0	32.0 44.0	2.0 3.0	97.0 13.0
<177.64-180.18>		Weak MT disseminated MINERALIZATION- 2% disseminated pyrite, typical sediments near gully fault.										
180.18	184.50	rubbly fault zone gouge 65° Weak SI pervasive Strong CB SHEETED Intense MS SHEETED Trace KS pervasive Weak PY disseminated Weak to rubbly broken core with fine grained black to light gray gouge to 6cm., gouge common at 60 to 65 degrees within tuff/mudstone. D.A.P.- 177.64 to 180.18m. MINERALIZATION- 4% euhedral disseminated pyrite, trace possible sphalerite.	51212 51213 51214	180.00-181.50 181.50-183.00 183.00-184.50	1.50 1.50 1.50	0.080 0.090 0.100	0.80 0.40	58.0 52.0 37.0	165.0 90.0 145.0	18.0 12.0 16.0	3.0 4.0 4.0	22.0 43.0 1.0
<180.18-184.50>		Strong MT disseminated MINERALIZATION- 4% euhedral disseminated pyrite, trace possible sphalerite.										
184.50	196.29	gabbro Medium grained, green, porphyritic, mottled Frs=8/m :Vns =20/m Weak SI spots Strong CL pervasive	51215 51216 51217	184.50-186.00 186.00-187.50 192.00-193.50	1.50 1.50 1.50	0.005 0.005 0.005	33.00 36.00 25.00	113.0 156.0 107.0	50.0 77.0 52.0	20.0 20.0 22.0	2.0 1.0	85.0 90.0 18.0

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
		Trace MS patches Moderate MT pervasive Weak EP stockwork Weak CV stockwork Medium to dark green porphyritic gabbro with 30% dark green euhedral augite phenos to 1cm., local light green plagiocryst phenos subhedral to 5mm., local rounded anhedral, silicified blebs, possibly replaced phenos, very fine grained matrix. ALTERATION- strong pervasive chlorite, weak to moderate patchy epidote with calcite in irregular stockwork, weak patchy silica, weak pervasive K-spar? weak irregular calcite stockwork. Unit gets finer grained, sericitized and bleached towards upper contact. May be fragments of sericitized tuff, HFxl or fine grained gabbro from 184.5 to 186m. Weak to moderate pervasive magnetite. No observable sulphides. Lower contact=E.O.H.										
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-48

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-48	Date Completed:		Geotech by: MBW
LENGTH: 245.67	Core Diam: BQTK		

Collar Location

Latitude:	1825.00
Departure:	1997.00
Elevation:	1265.00

SUMMARY

0.00-1.43	CASING
1.43-2.10	Semi-massive hematite
2.10-7.92	Broken Core
7.92-19.00	Hornblende Feldspar xtalline *
19.00-42.50	Hornblende Feldspar xtalline *
42.50-56.10	Hornblende Feldspar xtalline *
56.10-99.00	Biotite Hbl Fdsp xtalline *****
99.00-119.55	Hornblende Feldspar xtalline ******
119.55-122.00	Hornblende Feldspar xtalline
122.00-136.00	Biotite Hbl Fdsp xtalline
136.00-145.10	tuff *
145.10-155.00	volcaniclastics **
155.00-162.98	Hornblende Feldspar xtalline
162.98-163.00	ANDESITE
163.00-190.90	volcaniclastics
190.90-199.22	tuff **
199.22-203.61	rubbly fault zone *
203.61-207.90	gabbro *
207.90-229.00	gabbro **
229.00-245.67	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	1.43	CASING Casing.										
1.43	2.10	Semi-massive hematite Fine grained, dark red, auto brecciated, mottled foliated 40° Frs=3/m Moderate CL pervasive Strong KS pervasive Strong HE pervasive Strong pervasive hematite and K-spar within strongly brecciated BHFl rare local cream biotite/augite phenos,otherwise strongly mottled and moderately foliated at 40 degrees.	51218	1.43-2.10	0.67	0.010	13.00	20.0	168.0	20.0		27.0
2.10	7.92	Broken Core Green, oxidized, bleached Moderate CL wispy Strong angular to rubbly broken core overprinting strongly bleached HFxl. No observable phenos, very fine grained to aphanitic matrix. Strong limonite fracture fill, trace rusty gouge. Gougy fractures common at 10 degrees, weak wispy hematite. Fault likely near parallel with hole azimuth, since it is not encountered with CL96-47. May possibly be surficial weathering, but unlikely.	51219	2.10-3.00	0.90	0.020	0.20	15.0	25.0	26.0	2.0	18.0
			51220	3.00-4.50	1.50	0.050	0.80	195.0	25.0	30.0	2.0	17.0
			51221	4.50-6.00	1.50	0.005	8.00	83.0	5.0	18.0	1.0	24.0
7.92	19.00	Hornblende Feldspar xtalline Fine grained, redish-green cleavage, foliation Frs=12/m Weak CL pervasive Moderate HE wispy Trace PY disseminated Weak CV microveins Weak hematite stockwork zone. HFxl with light green to light gray subhedral hornblende phenos to 1.5mm., commonly cryptic, very fine grained to aphanitic matrix. ALTERATION- moderate to weak wispy hematite, moderate to weak pervasive chlorite, moderate pervasive sericite, strong pervasive K-spar, weak irregular calcite stockwork common at 60 degrees. Rare platy light gray subhedral biotite phenos to 4cm.	51222	6.00-8.00	2.00	0.010	0.20	17.0	20.0	16.0		13.0
			51223	8.00-9.50	1.50	0.005	6.00	3.0	291.0	14.0	1.0	22.0
			51224	9.50-11.00	1.50	0.005	7.00	26.0	148.0	12.0		18.0
			51225	11.00-12.50	1.50	0.005	9.00	32.0	98.0	16.0		14.0
			51226	12.50-14.50	2.00	0.225		174.0	20.0	2532.0	1.0	16.0
			51227	14.50-16.00	1.50	0.005	5.00	17.0	35.0	72.0	1.0	24.0
			51228	16.00-17.50	1.50	0.005	9.00	15.0	45.0	32.0	3.0	14.0
			51229	17.50-19.00	1.50	0.005	6.00	55.0	230.0	14.0	1.0	9.0
<7.92-10.00>		foliated 30° Moderate HE pervasive										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate to strong pervasive hematite, locally weakly foliated at 30 degrees.										
		<14.00-14.80> Broken Core fracturing 10° Moderate angular broken core with strong limonite fracture fill. Fractures common at 10 degrees, weak bleaching, moderate calcite leaching.										
		<14.80-16.60> Moderate MT disseminated MINERALIZATION- 3% wispy disseminated pyrite, often with hematite, often oxidized.										
		<14.80-16.60> VEINED & DISSEMINATED SULPHIDE Oxidized MINERALIZATION- 3% wispy disseminated pyrite, often with hematite, often oxidized.										
		<16.60-17.35> Broken Core Oxidized Strong angular broken core with strong limonite fracture fill, 2% fine grained to medium grained rusty gouge, fractures commonly at high angle to core axis, likely weak fault zone.										
19.00	42.50	Hornblende Feldspar xtalline	51230	19.00-20.50	1.50	0.005	4.00	46.0	245.0	16.0		9.0
		Fine grained, grayish-green, crystalline, broken	51232	20.50-22.00	1.50	0.005		8.0	72.0		80.0	6.0
		qz-carb veining 60°	51233	22.00-23.50	1.50	0.005		7.0	5.0		40.0	6.0
		Frs=18/m :Vns =20/m	51234	23.50-25.00	1.50	0.005		8.0	28.0	10.0	43.0	8.0
		Moderate CL wispy	51235	25.00-26.50	1.50	0.005		6.0	22.0		50.0	16.0
		Weak MS pervasive	51236	26.50-28.00	1.50	0.005		6.0	11.0		38.0	14.0
		Strong KS pervasive	51237	28.00-29.50	1.50	0.005		7.0	17.0		46.0	18.0
		Weak PY disseminated	51238	29.50-31.00	1.50	0.010		16.0	14.0	25.0	49.0	16.0
		Moderate CV microveins	51239	31.00-32.50	1.50	0.005		14.0	10.0	20.0	50.0	18.0
		Moderate QC microveins	51240	32.50-34.00	1.50	0.030	0.80	20.0	71.0	50.0	51.0	36.0
		Medium gray green HFxl intercalibrated with indistinct	51241	34.00-35.50	1.50	0.010		10.0	16.0	55.0	64.0	8.0
		dykes of BHFl/HFxl, with 25% light to dark green	51242	35.50-37.00	1.50	0.010		7.0	50.0	25.0	60.0	10.0
		subhedral hornblende phenos to 1.5mm., very fine	51243	37.00-38.50	1.50	0.005		14.0	92.0	30.0	59.0	14.0
		grained matrix. Local biotite phenos to 4mm.,	51244	38.50-40.00	1.50	0.020		7.0	154.0	10.0	32.0	28.0
		otherwise rare to absent. Platy light gray sub to	51245	40.00-41.50	1.50	0.010		9.0	65.0	20.0	62.0	14.0
		euhedral. Weak to moderate pervasive and wispy	51246	41.50-42.50	1.00	0.085	0.20	10.0	232.0	65.0	64.0	30.0
		chlorite, moderate to strong pervasive K-spar, moderate irregular calcite +/- quartz with rare hematite or chlorite stockwork at 60 degrees, weak broken core with weak limonite fracture fill throughout interval, calcite/chlorite slickenslides common.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<21.70-21.80> foliated 35°										
		Moderate CL wispy										
		Moderate HE wispy										
		Moderate wispy hematite with chlorite at 35 degrees foliation.										
		<25.70-26.00> Biotite Hbl Fdsp xtalline										
		Fine grained, crystalline										
		BHFl with 8% euhedral platy biotite phenos to 4mm., no observable contacts for dykelette. May be taxitic.										
		<26.85-27.28> Chlorite Streaming										
		sheeting 25°										
		Strong CL SHEETED										
		Moderate chlorite streaming, likely with K-spar at 25 degrees.										
		<31.30-34.30> Biotite Hbl Fdsp xtalline										
		Fine grained, crystalline										
		Medium green gray BHFl with 5% light gray platy biotite phenos to 4mm. No observed contacts.										
		<33.50-34.40> Intense MT wispy										
		MINERALIZATION- 5% fine grained to medium grained wispy pyrite.										
		<33.50-34.40> VEINED & DISSEMINATED SULPHIDE										
		MINERALIZATION- 5% fine grained to medium grained wispy pyrite.										
		<37.00-42.50> foliated 50°										
		Moderate chloritic foliation at 50 degrees. May range from 40 to 60 degrees, but quite angular.										
		<41.50-42.00> Broken Core										
		Redish-gray										
		Strong angular to rubbly to rusty broken core. Fractures generally at low angle to core axis.										
42.50	56.10	Hornblende Feldspar xtalline	51247	42.50-43.00	0.50	0.015		11.0	356.0	20.0	73.0	24.0
		Fine grained, redish-gray, crystalline	51248	43.00-44.00	1.00	0.045	1.80	8.0	2862.0	25.0	59.0	6.0
		Frs=10/m :Vns =60/m	51249	44.00-45.00	1.00	0.005		10.0	334.0	5.0	72.0	12.0
		Trace SI pervasive	51250	45.00-46.00	1.00	0.005	0.20	11.0	259.0		77.0	18.0
		Moderate CL pervasive	51251	46.00-47.00	1.00	0.035		12.0	119.0		123.0	12.0
		Moderate MS patches	51252	47.00-48.00	1.00	0.005	0.40	8.0	364.0	5.0	104.0	18.0
		Moderate MT pervasive	51253	48.00-49.00	1.00	0.150		11.0	112.0		95.0	16.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong KS pervasive	51254	49.00-50.00	1.00	0.155		6.0	13.0		39.0	10.0
		Strong HE pervasive	51255	50.00-51.00	1.00	0.070		8.0	129.0	10.0	63.0	102.0
		Weak CV microveins	51256	51.00-52.00	1.00	0.050		10.0	70.0		62.0	12.0
		Weak QC microveins	51257	52.00-53.00	1.00	0.455		5.0	122.0	5.0	64.0	18.0
		H-zone. Dark reddish gray to reddish green HFxl with	51258	53.00-54.00	1.00	0.410	1.00	6.0	465.0		88.0	14.0
		20 to 25%, commonly cryptic, dark green gray	51259	54.00-55.00	1.00	0.050	0.20	8.0	153.0	25.0	66.0	12.0
		hornblende laths and needles to 2.5mm., with very fine	51260	55.00-56.00	1.00	0.070		11.0	140.0	10.0	88.0	10.0
		grained to aphanitic matrix. ALTERATION- strong to										
		moderate pervasive hematite, commonly wispy or										
		foliated, moderate to strong pervasive black chlorite,										
		patchy moderate to absent pervasive magnetite. Strong										
		pervasive to patchy K-spar, weak to strong patchy										
		light apple green sericite increasing towards lower										
		contact, local weak pervasive silica, weak limonite										
		fracture fill and trace malachite fracture fill										
		throughout unit, with traces fine grained calcopyrite.										
<43.08-43.45>		.3% chalcopyrite - disseminated										
		MINERALIZATION- 0.3% disseminated fine grained										
		calcopyrite, moderate malachite fracture fill.										
<43.08-43.45>		VEINED & DISSEMINATED SULPHIDE										
		MINERALIZATION- 0.3% disseminated fine grained										
		calcopyrite, moderate malachite fracture fill.										
<44.75-48.00>		Moderate MT pervasive										
		Moderate pervasive magnetite.										
<46.30-48.00>		Semi-massive hematite										
		Weak SI pervasive										
		Moderate MS patches										
		Strong KS patches										
		Strong HE pervasive										
		Weak pervasive silica, strong pervasive hematite,										
		strong patchy K-spar, moderate patchy apple green										
		sericite.										
<53.50-54.75>		Strong MS patches										
		Strong patchy apple green sericite.										
56.10	99.00	Biotite Hbl Fdsp xtalline	51261	56.00-57.00	1.00	0.255	0.20	16.0	80.0	20.0	158.0	24.0
		Redish-green, crystalline	51262	57.00-58.00	1.00	0.030		9.0	121.0	45.0	107.0	36.0
		Frs=10/m :Vns =30/m	51263	58.00-59.00	1.00	0.005		11.0	205.0	20.0	84.0	12.0
		Trace SI patches	51264	59.00-60.00	1.00	0.060	0.60	13.0	1736.0	5.0	51.0	8.0
		Strong CL pervasive	51265	60.00-61.00	1.00	0.050	0.40	10.0	299.0	5.0	83.0	20.0
		Moderate MS patches	51266	61.00-62.00	1.00	0.075		9.0	7.0		134.0	12.0
		Weak MT pervasive	51267	62.00-63.00	1.00	0.005		6.0	77.0		115.0	8.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong KS pervasive	51268	63.00-64.00	1.00	0.005		6.0	14.0		116.0	8.0
		Moderate HE wispy	51269	64.00-65.00	1.00	0.005		10.0			193.0	10.0
		Trace PY disseminated	51270	65.00-66.00	1.00	0.005		7.0	3.0	5.0	224.0	10.0
		Weak CV patches	51271	66.00-67.00	1.00	0.005		7.0			572.0	8.0
		H-zone? Dark reddish gray green to dark gray to medium	51272	67.00-68.00	1.00	0.015		9.0	58.0		673.0	8.0
		dark green BHFl with 5 to 6%, locally to 15% copper	51273	68.00-69.00	1.00	0.010		8.0	12.0	5.0	408.0	14.0
		coloured to light gray to cream coloured, eu to	51274	69.00-70.00	1.00	0.025		8.0	13.0	15.0	173.0	48.0
		subhedral biotite phenos to 5mm., 25% light green to	51275	70.00-71.00	1.00	0.015		7.0	11.0	10.0	136.0	60.0
		light gray hornblende phenos to 1.5mm., very fine	51276	71.00-72.00	1.00	0.005		9.0	16.0		113.0	10.0
		grained to aphanitic matrix. ALTERATION- strong dark	51277	72.00-73.00	1.00	0.005		9.0	5.0	10.0	95.0	8.0
		green to black pervasive chlorite, moderate to weak	51278	73.00-74.00	1.00	0.025		8.0	4.0		83.0	8.0
		pervasive, wispy and microfracture controlled	51279	74.00-75.00	1.00	0.005		6.0	10.0		74.0	6.0
		hematite, local weak to moderate pervasive magnetite,	51280	75.00-76.00	1.00	0.005		5.0	2.0		64.0	6.0
		otherwise absent. Local strong patchy sericite, weak	51281	76.00-77.00	1.00	0.005		6.0	85.0	5.0	69.0	8.0
		irregular patchy calcite veins.	51282	77.00-78.00	1.00	0.005		7.0	40.0		73.0	10.0
<59.00-59.25>		4 % chalcopyrite - wispy										
		MINERALIZATION- 4% wispy calcopyrite, 1% pyrite.										
<59.00-59.25>		VEINED & DISSEMINATED SULPHIDE										
		MINERALIZATION- 4% wispy calcopyrite, 1% pyrite.										
<60.00-61.00>		Trace MT disseminated										
		MINERALIZATION- 1% disseminated pyrite.										
<60.00-61.00>		MINERALIZATION- 1% disseminated pyrite.										
<68.40-69.30>		sheeting 45°										
		Moderate HE wispy										
		Moderate hematite sheeting at 45 degrees.										
<69.60-70.30>		Strong MT wispy										
		MINERALIZATION- 4% coarse grained wispy pyrite.										
<69.60-70.30>		VEINED & DISSEMINATED SULPHIDE										
		MINERALIZATION- 4% coarse grained wispy pyrite.										
<72.50-77.00>		Broken Core										
		fracturing 10°										
		Weak angular broken core with strong limonite fracture										
		fill, fractures generally at 10 to 15 degrees.										
<80.60-81.50>		Moderate angular broken core with moderate limonite	51283	78.00-79.00	1.00	0.005		7.0	46.0		72.0	24.0
		MnO fracture fill, fractures generally at low angle to	51284	79.00-80.00	1.00	0.005		6.0	47.0		57.0	8.0
		core axis. Overprinting strong irregular chlorite	51285	80.00-81.00	1.00	0.065		10.0	2.0	10.0	107.0	10.0
		stringer.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<81.90-83.30>		hematite vein	51286	81.00-82.00	1.00	0.005		24.0	20.0	10.0	137.0	12.0
		microveins 25°	51287	82.00-83.00	1.00	0.085		15.0	14.0	10.0	66.0	10.0
		<1cm. hematite veins +/- magnetite with 2cm.										
		K-spar/silica selvages. Vein common at 25 degrees.										
<86.60-87.75>		Weak MT disseminated	51288	83.00-84.00	1.00	0.155		21.0	3.0	15.0	78.0	10.0
		MINERALIZATION- 2% coarse grained disseminated pyrite.	51289	84.00-85.00	1.00	0.030		34.0	56.0	20.0	106.0	12.0
<86.60-87.75>		VEINED & DISSEMINATED SULPHIDE	51290	85.00-86.00	1.00	0.090	0.40	29.0	422.0	15.0	75.0	10.0
		Weak SI pervasive	51291	86.00-87.00	1.00	2.050	5.00	83.0	55.0	95.0	87.0	28.0
		Intense MS pervasive										
		Moderate HE wispy										
		Intense light apple green sericite, moderate wispy										
		hematite, weak patchy silica. MINERALIZATION- 2%										
		coarse grained disseminated pyrite.										
<89.10-89.50>		.3% chalcopyrite - disseminated	51292	87.00-88.00	1.00	0.105		44.0	22.0	60.0	131.0	16.0
		MINERALIZATION- 0.3% disseminated calcopyrite.	51293	88.00-89.00	1.00	0.010		73.0	57.0	90.0	271.0	52.0
<89.10-89.50>		VEINED & DISSEMINATED SULPHIDE										
		Weak MT patches										
		Weak HE patches										
		Weak irregular hematite/magnetite patches.										
		MINERALIZATION- 0.3% disseminated calcopyrite.										
<92.05-92.12>		Possible eurythrite fracture fill.	51295	89.00-90.00	1.00	0.865		66.0	33.0	90.0	233.0	20.0
<92.95-99.00>		hematite vein	51296	90.00-91.00	1.00	0.035		6.0	39.0	5.0	104.0	12.0
		Weak SI selvages	51297	91.00-92.00	1.00	0.020		8.0	22.0		88.0	8.0
		Moderate MT pervasive	51298	92.00-93.00	1.00	0.005		7.0			75.0	8.0
		Strong KS selvages	51299	93.00-94.00	1.00	0.005		5.0	2.0	5.0	47.0	6.0
		Moderate HE vein	51300	94.00-95.00	1.00	0.005		6.0			65.0	6.0
		Moderate pervasive magnetite, irregular hematite +/-	51301	95.00-96.00	1.00	0.005		6.0	1.0		53.0	4.0
		magnetite veins, with 3cm. K-spar, silica selvages.	51302	96.00-97.00	1.00	0.190		8.0			73.0	8.0
		Decrease in amount of biotite phenos, contacting	51303	97.00-98.00	1.00	0.050		15.0		10.0	87.0	8.0
		graduationally into HFxl.										
99.00	119.55	Hornblende Feldspar xtalline	51304	98.00-99.50	1.50	0.010		9.0	24.0	15.0	60.0	10.0
		Fine grained, green, crystalline, massive	51305	99.50-101.00	1.50	0.020		7.0	11.0	10.0	88.0	20.0
		Moderate SI patches	51306	101.00-102.50	1.50	0.060		7.0	18.0	25.0	80.0	30.0
		Strong CL pervasive	51307	102.50-104.00	1.50	0.020		9.0	11.0		106.0	10.0
		Strong KS pervasive	51308	104.00-105.50	1.50	0.015		14.0	37.0	10.0	124.0	10.0
		Trace PY disseminated	51309	105.50-107.00	1.50	0.035		14.0	42.0	15.0	96.0	10.0
		Weak CV microveins	51310	107.00-108.50	1.50	0.020		15.0	13.0	15.0	94.0	8.0
		Weak QC microveins	51311	108.50-110.00	1.50	0.045	0.40	26.0	95.0	80.0	134.0	20.0
		Medium to dark green to gray green HFxl with 25% light	51312	110.00-111.00	1.00	0.040	0.20	25.0	212.0	60.0	171.0	24.0
		to dark green subhedral hornblende needles to 2mm..										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Rare light gray or cream subhedral biotite phenos, very fine grained to aphanitic matrix. ALTERATION- strong pervasive chlorite, moderate patchy silica, likely strong pervasive K-spar, weak to moderate calcite +/- quartz stockwork.										
<111.00-119.55>	Dark green, mottled	51313	111.00-112.00	1.00	1.120	2.60	44.0	438.0	100.0	1567.0	664.0
	Frs=8/m :Vns =30/m	51314	112.00-113.00	1.00	0.860	2.80	230.0	773.0	610.0	357.0	134.0
	Weak SI pervasive	51315	113.00-114.00	1.00	4.140	8.80	280.0	613.0	310.0	816.0	344.0
	Intense CL pervasive	51316	114.00-115.00	1.00	1.910	7.00	473.0	367.0	1390.0	1031.0	300.0
	Moderate KS pervasive	51317	115.00-116.00	1.00	0.940	6.20	179.0	473.0	275.0	615.0	208.0
	Trace HE wispy	51318	116.00-117.00	1.00	1.020	5.80	85.0	285.0	320.0	411.0	554.0
	Moderate PY patches	51319	117.00-118.00	1.00	0.615	4.60	110.0	374.0	240.0	473.0	128.0
	Weak QC microveins	51320	118.00-119.00	1.00	0.015	2.00	43.0	284.0	45.0	200.0	40.0
	Weak, patchy S-zone. Medium to dark green HFxl or possible BHFl with 25%, usually cryptic, light gray to light green to dark green subhedral hornblende laths and needles to 1.5mm., sub to anhedral oikiolitic? Feldspar phenos? to 3mm., very fine grained to aphanitic matrix. ALTERATION- intense pervasive dark green chlorite, weak patchy silica, trace wispy hematite, generally in patches with calcite +/- quartz, possibly weak to moderate K-spar, based on other stained intersections, patches irregularly at very shallow angle to core axis.										
<111.00-112.03>	?? MT patches										
	MINERALIZATION- 6% coarse grained pyrite as granular patches with less wispy disseminations.										
<111.00-112.03>	VEINED & DISSEMINATED SULPHIDE										
	MINERALIZATION- 6% coarse grained pyrite as granular patches with less wispy disseminations.										
<112.03-112.35>	Trace MT patches										
	2 % arsenopyrite - patches										
	MINERALIZATION- 2% patchy medium grained arsenopyrite, 10% medium to coarse grained granular pyrite patches.										
<112.03-112.35>	VEINED & DISSEMINATED SULPHIDE										
	MINERALIZATION- 2% patchy medium grained arsenopyrite, 10% medium to coarse grained granular pyrite patches.										
<112.35-114.43>	Strong MT disseminated										
	MINERALIZATION- 4% pyrite as wispy disseminations.										
<112.35-114.43>	VEINED & DISSEMINATED SULPHIDE										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- 4% pyrite as wispy disseminations.										
		<114.43-114.51> Weak MT patches										
		MINERALIZATION- 3% arsenopyrite, 20% coarse grained granular pyrite as irregular patches.										
		<114.43-114.51> VEINED & DISSEMINATED SULPHIDE										
		MINERALIZATION- 3% arsenopyrite, 20% coarse grained granular pyrite as irregular patches.										
		<114.51-119.20> Intense MT wispy										
		MINERALIZATION- 5% pyrite as fine grained to medium grained wisps with less disseminations and granular patches, trace arsenopyrite.										
		<114.51-119.20> VEINED & DISSEMINATED SULPHIDE										
		MINERALIZATION- 5% pyrite as fine grained to medium grained wisps with less disseminations and granular patches, trace arsenopyrite.										
		<119.20-119.28> Trace MT medium grained										
		2 % arsenopyrite - patches										
		MINERALIZATION- 2% arsenopyrite as medium grained granular patches, 10% medium grained to coarse grained granular pyrite.										
		<119.20-119.28> VEINED & DISSEMINATED SULPHIDE										
		MINERALIZATION- 2% arsenopyrite as medium grained granular patches, 10% medium grained to coarse grained granular pyrite.										
119.55	122.00	Hornblende Feldspar xtalline	51321	119.00-120.00	1.00	0.180	1.40	59.0	303.0	200.0	197.0	34.0
		Fine grained, green, crystalline	51322	120.00-121.00	1.00	0.045	2.00	47.0	147.0	120.0	210.0	34.0
		Frs=7/m :Vns =15/m	51323	121.00-122.00	1.00	0.030	2.40	36.0	116.0	75.0	213.0	62.0
		Strong CL pervasive										
		Strong CB patches										
		Strong KS pervasive										
		Moderate CV microveins										
		Medium green gray HFxl with 25% light to dark green hornblende phenos to 2mm., very fine grained matrix.										
		ALTERATION- strong pervasive chlorite, likely strong pervasive K-spar, strong patchy carbonate, calcite, and iron-carbonate. Local patches of oikiolitic feldspar phenos.										
122.00	136.00	Biotite Hbl Fdsp xtalline	51324	122.00-123.50	1.50	0.025	1.40	33.0	81.0	75.0	133.0	32.0
		Fine grained, grayish-green, crystalline, mottled	51325	123.50-124.50	1.00	0.045	1.00	30.0	109.0	150.0	144.0	40.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		cleavage, foliation 60°	51326	124.50-126.00	1.50	0.010		14.0	32.0	300.0	60.0	24.0
		Frs=7/m :Vns =25/m	51327	126.00-127.50	1.50	0.005		11.0	46.0	75.0	58.0	22.0
		Moderate CL pervasive	51328	127.50-129.00	1.50	0.005	0.40	13.0	41.0	130.0	55.0	30.0
		Weak CB patches	51329	129.00-130.50	1.50	0.010		8.0	7.0	65.0	60.0	24.0
		Weak MS pervasive	51330	130.50-132.00	1.50	0.005	0.20	10.0	43.0	65.0	64.0	26.0
		Moderate CV microveins	51331	132.00-133.50	1.50	0.020	0.40	17.0	45.0	70.0	81.0	30.0
		Medium gray green to green BHFl with 10% sub to	51332	133.50-135.00	1.50	0.010	0.80	31.0	136.0	50.0	94.0	38.0
		euhedral biotite? most likely augite phenos to 4mm.,										
		25% light to dark green to light gray locally cream										
		subhedral hornblende laths and needles to 25mm., very										
		fine grained to aphanitic matrix. ALTERATION- moderate										
		wispy and pervasive chlorite, weak patchy light green										
		sericite? moderate patchy and stockwork calcite,										
		commonly at 60 degrees. Lower contact=indistinct.										
	<133.00-136.00>	volcaniclastics										
		Strong CL pervasive										
		Moderate MS patches										
		Strong KS pervasive										
		Increasingly mottled often weakly foliated BHFl? no										
		observable known phenos, taxitic oikiocrysts, however.										
		Strong pervasive chlorite, strong patchy K-spar,										
		moderate patchy sericite. Possible fragmental?										
136.00	145.10	tuff	51333	135.00-136.50	1.50	0.005	0.40	23.0	103.0	30.0	103.0	26.0
		Aphanitic, green, crystalline, foliated	51334	136.50-138.00	1.50	0.010	0.20	29.0	92.0	60.0	108.0	32.0
		foliated 50°	51336	138.00-139.50	1.50	0.040	1.60	35.0	132.0	45.0	119.0	26.0
		Strong CL pervasive	51337	139.50-141.00	1.50	0.005	0.40	27.0	56.0	30.0	105.0	24.0
		Strong CB patches	51338	141.00-142.50	1.50	1.810	1.60	80.0	195.0	100.0	86.0	20.0
		Strongly foliated yet highly contorted crystalline	51339	142.50-144.00	1.50	0.015	1.00	33.0	115.0	45.0	142.0	34.0
		volcaniclastic? tuff? medium to dark green, with local										
		light green to cream, "needle" like crystals. Some										
		coarser grained and finer grained sections. Likely										
		volcanic raft entirely overprinted within intrusive.										
		ALTERATION- strong pervasive chlorite, strong										
		irregular patchy calcite. Some purplish beds? hematite										
		altered? Foliation often at 50 degrees.										
	<143.00-143.30>	Broken Core										
		Moderate angular broken core, strongly gougy? May be										
		drill cuttings, moderate limonite fracture fill.										
	<143.30-143.49>	ANDESITE										
		Fine grained, grayish-violet, crystalline										
		Strong MT pervasive										
		Moderate KS disseminated										
		Brown, strongly magnetic late dyke, light green gray										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		speckles are probably K-spar phenos. Contacts=broken core.										
		<143.49-144.50> Strong MT fine grained MINERALIZATION- 4% fine grained euhedral pyrite.										
		<143.49-144.50> tuff Violet Layers of purplish hematite? material. May be maroon ash tuffs. MINERALIZATION- 4% fine grained euhedral pyrite.										
145.10	155.00	volcaniclastics	51340	144.00-145.50	1.50	0.020	1.40	26.0	146.0	30.0	123.0	26.0
		Dark green, mottled, auto-brecciated	51341	145.50-147.00	1.50	0.005	2.20	25.0	210.0	40.0	99.0	44.0
		qz-carb veining 60°	51342	147.00-148.50	1.50	0.010	2.60	30.0	262.0	55.0	112.0	58.0
		Frs=12/m :Vns =10/m	51343	148.50-150.00	1.50	0.005	1.00	28.0	117.0	20.0	94.0	24.0
		Weak SI wispy	51344	150.00-151.50	1.50	0.005	0.80	25.0	109.0	20.0	107.0	26.0
		Strong CL pervasive	51345	151.50-153.00	1.50	0.005	1.40	31.0	262.0	35.0	190.0	30.0
		Weak MS patches										
		Trace HE wispy										
		Moderate QC microveins										
		Medium to dark green mottled autoclastically brecciated fragmental, with highly irregular subrounded fragments of HFxl with varying grainsize from very fine grained to medium to coarse grained. HFxl matrix with light to dark green locally cream commonly cryptic hornblende phenos to 1mm., very fine grained to aphanitic groundmass. Difficult to ascertain percentage of fragments. ALTERATION- strong pervasive chlorite, weak wispy silica and wispy hematite near upper contact, weak to moderate calcite veins +/- quartz, commonly at 60 degrees, moderate local patchy light green sericite.										
		<145.10-147.10> Trace MT disseminated MINERALIZATION- 1% disseminated pyrite.										
		<145.10-147.10> Weak wispy hematite. MINERALIZATION- 1% disseminated pyrite.										
		<147.10-148.00> Strong MT wispy MINERALIZATION- 4% fine grained wispy pyrite, possible trace pyrrhotite.										
		<147.10-148.00> VEINED & DISSEMINATED SULPHIDE MINERALIZATION- 4% fine grained wispy pyrite, possible trace pyrrhotite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<151.30-154.30> Broken Core gouge 60° Weak broken core, with 1 to 3mm. gougy slips at 60 degrees, weak limonite fracture fill and calcite leaching.										
155.00	162.98	Hornblende Feldspar xtalline	51346	153.00-155.50	2.50	0.005	1.00	19.0	228.0	20.0	141.0	26.0
		Fine grained, green, massive	51347	155.50-156.50	1.00	0.005		11.0		5.0	63.0	32.0
		qz-carb veining 55°	51348	156.50-158.00	1.50	0.005		12.0	5.0	5.0	61.0	14.0
		Frs=12/m :Vns =16/m	51349	158.00-159.50	1.50	0.005		15.0	77.0		68.0	18.0
		Moderate CL pervasive	51350	159.50-161.00	1.50	0.005	0.20	23.0	89.0	10.0	82.0	24.0
		Moderate MS pervasive	51351	161.00-162.00	1.00	0.005	0.40	35.0	178.0	15.0	83.0	22.0
		Moderate QC microveins	51352	162.00-162.98	0.98	0.005	0.60	28.0	227.0	10.0	112.0	24.0
		Medium green massive, locally weakly mottled HFxl with 20% translucent light green subhedral hornblende *needles to 1.5mm., very fine grained* matrix. ALTERATION- moderate pervasive and fracture fill chlorite, weak to moderate pervasive light green sericite, moderate calcite +/- quartz veins and stockwork, often at 55 degrees. Calcite often with orange stain.										
162.98	163.00	ANDESITE										
		Fine grained, dark gray, spherulitic, broken foliated 30°										
		Strong MS pervasive										
		Moderate KS disseminated										
		Medium to dark gray to green gray strongly magnetic late andesite dyke, foliated light gray speckles, about 6% at 30 degrees, probably contact is parallel with staining, shows this unit to have strong disseminated K-spar, Upper contact=lower contact- moderate broken core with weak limonite fracture fill. NOTE: on surface, this dyke appears to be intruding along brittle faults.										
163.00	190.90	volcaniclastics	51353	162.98-163.60	0.62	0.005		23.0	15.0	45.0	108.0	22.0
		Gray, mottled, auto brecciated	51354	163.60-165.00	1.40	0.005		28.0	23.0	10.0	96.0	70.0
		qz-carb veining 60°	51355	165.00-166.50	1.50	0.005		31.0	71.0	10.0	98.0	48.0
		Frs=10/m :Vns =20/m	51356	166.50-168.00	1.50	0.005	0.20	26.0	101.0	20.0	99.0	24.0
		Trace SI pervasive	51357	168.00-169.50	1.50	0.005	0.60	29.0	151.0	15.0	123.0	28.0
		Weak CL wispy	51358	169.50-171.00	1.50	0.005		25.0	73.0	35.0	116.0	30.0
		Strong MS pervasive	51359	171.00-172.50	1.50	0.005		23.0	56.0	10.0	127.0	32.0
		Strong KS pervasive	51360	172.50-174.00	1.50	0.005	0.40	21.0	71.0	10.0	124.0	26.0
		Moderate QC microveins	51361	174.00-175.50	1.50	0.005	0.40	18.0	69.0	10.0	112.0	34.0
		Medium gray, green gray near upper contact strongly	51362	175.50-177.00	1.50	0.005	0.40	28.0	112.0	20.0	122.0	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
		contact=E.O.H.										
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-49

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-49	Date Completed:		Geotech by:
LENGTH: 77.72	Core Diam: BQTK		

Collar Location

Latitude:	1821.71
Departure:	2023.90
Elevation:	1284.74

S U M M A R Y

0.00-0.35	CASING
0.35-21.75	Hornblende Feldspar xtalline
21.75-29.80	Biotite Hbl Fdsp xtalline
29.80-33.00	Broken Core
33.00-42.00	Hornblende Feldspar xtalline
42.00-48.52	Biotite Hbl Fdsp xtalline
48.52-77.72	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	0.35	CASING Casing.										
0.35	21.75	Hornblende Feldspar xtalline	51395	0.35-1.00	0.65	0.475	1.00	100.0	14.0	25.0	194.0	32.0
		Fine grained, red, mottled, crystalline	51396	1.00-2.00	1.00	0.005		22.0	9.0	15.0	128.0	22.0
		Frs=6/m :Vns =12/m	51397	2.00-3.00	1.00	0.005		4.0	6.0	10.0	70.0	28.0
		Weak SI patches	51398	3.00-4.00	1.00	0.005		7.0	8.0	10.0	164.0	30.0
		Weak CL wispy	51399	4.00-5.00	1.00	0.060		7.0	8.0	10.0	146.0	28.0
		Weak CB patches	51400	5.00-6.00	1.00	0.005		7.0	4.0	5.0	220.0	26.0
		Weak MS patches	51401	6.00-7.00	1.00	0.005		5.0	10.0	10.0	151.0	28.0
		Strong KS patches	51402	7.00-8.00	1.00	0.010		6.0	8.0	10.0	282.0	20.0
		Strong HE pervasive	51403	8.00-9.00	1.00	0.040		11.0	8.0	10.0	125.0	30.0
		Weak CV stockwork	51404	9.00-10.00	1.00	0.110	0.20	1.0	11.0	10.0	88.0	22.0
		Weak QC stockwork	51405	10.00-11.00	1.00	0.020		9.0	12.0	10.0	184.0	16.0
		Medium to dark red to reddish green to medium green	51406	11.00-12.00	1.00	0.110		21.0	10.0	10.0	235.0	22.0
		HFxl with possible weak H-3 zone or hematite stockwork	51407	12.00-13.00	1.00	0.235	0.40	35.0	21.0	15.0	234.0	28.0
		zone, 25% cream to light gray, usually cryptic,	51408	13.00-14.00	1.00	0.115	0.40	38.0	16.0	10.0	290.0	30.0
		subhedral hornblende needles to 1.5mm., with fine	51409	14.00-15.00	1.00	0.040		12.0	12.0	20.0	130.0	22.0
		grained to very fine grained matrix. Rare light gray	51410	15.00-16.00	1.00	0.005	0.20	6.0	7.0	5.0	39.0	20.0
		subhedral biotite phenos, sharp irregular lower	51411	16.00-17.00	1.00	0.010		13.0	36.0	10.0	88.0	24.0
		contact. ALTERATION- strong pervasive hematite with	51412	17.00-18.00	1.00	0.010	0.20	12.0	14.0	15.0	56.0	22.0
		local moderate microfracture controlled stockwork,	51413	18.00-19.50	1.50	0.005		11.0	13.0	5.0	54.0	28.0
		weak patchy to moderate pervasive silica, patchy	51414	19.50-21.00	1.50	0.005		8.0	12.0	10.0	51.0	36.0
		K-spar likely, weak calcite patches and veins to 2cm.,										
		weak pervasive and wispy chlorite locally moderate,										
		locally moderate to strong patchy sericite. No visible										
		sulphides.										
	<0.60-0.90>	Semi-massive hematite foliated 40° Strong SI patches Intense HE pervasive Intense pervasive hematite with strong patchy quartz/silica; foliated at 10 degrees.										
	<8.55-10.50>	Weak SI patches Moderate MS patches Moderate HE patches Moderate patchy pervasive hematite, weak patchy silica, moderate patchy sericite.										
	<14.25-14.90>	Broken Core Bleached, oxidized qz-carb veining 35° Moderate QC macroveins Moderate to strong rusty angular broken core within										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		moderately bleached HFxl, 3cm. calcite quartz vein at 35 degrees to lower contact.										
	<15.37-16.13>	Strong MS pervasive Strong KS pervasive Moderate HE stockwork Moderate to weak hematite stockwork, microfracture controlled, strong pervasive sericite, K-spar.										
	<17.15-21.75>	Moderate MS patches Strong KS pervasive Moderate HE stockwork Moderate to weak hematite stockwork, with less microfracture controlled strong pervasive K-spar, moderate to strong patchy sericite.										
21.75	29.80	Biotite Hbl Fdsp xtalline	51415	21.00-22.50	1.50	0.005		8.0	11.0		65.0	34.0
		Redish-gray, crystalline, stockwork	51416	22.50-24.00	1.50	0.005		9.0	9.0	10.0	53.0	20.0
		foliated 45°	51417	24.00-25.50	1.50	0.005		11.0	33.0	15.0	50.0	28.0
		Frs=10/m :Vns =20/m	51418	25.50-27.00	1.50	0.005		11.0	19.0	10.0	47.0	24.0
		Moderate CL pervasive	51419	27.00-28.50	1.50	0.005	0.60	9.0	89.0	5.0	79.0	26.0
		Weak MS patches Strong KS pervasive Moderate HE stockwork Weak CV microveins Medium to dark red gray to red green gray BHfl with 6% copper to light gray coloured biotite phenos to 5mm., 20 to 25% light gray to light green gray, subhedral hornblende needles to 2mm., fine grained to very fine grained matrix. ALTERATION- moderate to weak disseminations and hematite stockwork with less microfracture controlled with good solution fronts, weak foliation at 45 degrees. Moderate pervasive dark gray chlorite, local moderate patcy sericite, weak calcite in irregular veins, often with hematite, to 8mm., 2 per meter. Lower contact=fault zone.										
29.80	33.00	Broken Core	51420	28.50-30.00	1.50	0.105	0.60	11.0	39.0	15.0	184.0	30.0
		Fine grained, dark green, oxidized, bleached	51421	30.00-31.50	1.50	0.010	0.80	20.0	20.0	55.0	295.0	38.0
		Frs=100/m	51422	31.50-33.00	1.50	0.010	0.40	11.0	38.0	15.0	212.0	30.0
		Moderate CL wispy Strong subangular to rubbly broken core within bleached light gray green HFxl. Inconsistent fracture orientation, trace rusty gouge, weak to moderate wispy braided chlorite fluid streaming.										
33.00	42.00	Hornblende Feldspar xtalline	51423	33.00-34.00	1.00	0.005		10.0	10.0	5.0	53.0	16.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Fine grained, grayish-red, mottled, crystalline	51424	34.00-35.00	1.00	0.010		9.0	20.0		37.0	14.0
		Frs=15/m :Vns =22/m	51425	35.00-36.00	1.00	0.005		9.0	11.0	10.0	38.0	16.0
		Weak SI pervasive	51426	36.00-37.00	1.00	0.005		12.0	16.0	5.0	42.0	30.0
		Moderate CL pervasive	51427	37.00-38.00	1.00	0.005	0.60	12.0	34.0	10.0	48.0	24.0
		Strong KS patches	51428	38.00-39.00	1.00	0.005	0.40	11.0	66.0	5.0	82.0	86.0
		Strong HE pervasive	51429	39.00-40.00	1.00	0.005	0.20	13.0	49.0	10.0	57.0	30.0
		Weak QC stockwork	51430	40.00-41.00	1.00	0.080		10.0	30.0		45.0	24.0
		Medium to dark gray red HFxl with 25% light gray,	51431	41.00-42.00	1.00	0.005		11.0	15.0		38.0	20.0
		usually cryptic, hornblende phenos to 2mm., with very										
		fine grained to aphanitic matrix, very rare light gray										
		subhedral biotites. ALTERATION- strong pervasive and										
		disseminated hematite, moderate to intense patchy										
		K-spar, weak to moderate pervasive chlorite, trace										
		pervasive patchy silica, weak to moderate calcite										
		stockwork +/- quartz. Lower contact=indistinct,										
		possible very weak H-3 zone.										
42.00	48.52	Biotite Hbl Fdsp xtalline	51432	42.00-43.00	1.00	0.005	0.40	12.0	19.0	10.0	33.0	22.0
		Redish-gray, crystalline, stockwork	51433	43.00-44.00	1.00	0.005		7.0	11.0	5.0	31.0	20.0
		Frs=10/m :Vns =25/m	51434	44.00-45.00	1.00	0.005	0.20	12.0	56.0	15.0	27.0	22.0
		Moderate CL pervasive	51435	45.00-46.00	1.00	0.005		20.0	40.0	10.0	19.0	18.0
		Moderate MS pervasive	51436	46.00-47.00	1.00	0.005	0.20	21.0	229.0	5.0	18.0	20.0
		Strong KS pervasive	51437	47.00-48.00	1.00	0.005	0.20	16.0	20.0	10.0	23.0	20.0
		Moderate HE disseminated										
		Weak CV stockwork										
		Medium to dark red gray to green gray BHFl with 4%										
		often taxitic, copper coloured to light gray, eu to										
		subhedral biotite phenos to to 3.5mm., 20% light green										
		translucent to light gray hornblende phenos to 1.5mm.,										
		very fine grained to aphanitic matrix, local rare										
		rounded irregular fine grained fragments. ALTERATION-										
		moderate pervasive chlorite, moderately disseminated										
		sericite, pervasive and stockwork hematite with										
		calcite in weak irregular stockwork. Lower										
		contact=graduational.										
48.52	77.72	Hornblende Feldspar xtalline	51438	48.00-49.00	1.00	0.005		14.0	16.0	10.0	95.0	22.0
		Fine grained, greenish-red, stockwork, crystalline	51439	49.00-50.00	1.00	0.025	1.00	7.0	77.0	85.0	263.0	38.0
		foliated 45°	51440	50.00-51.00	1.00	0.005	0.60	10.0	67.0	30.0	171.0	38.0
		Frs=8/m :Vns =40/m	51441	51.00-52.00	1.00	0.005	0.40	7.0	32.0		83.0	24.0
		Trace SI patches	51442	52.00-53.00	1.00	0.005		7.0	34.0	5.0	38.0	8.0
		Strong CL pervasive	51443	53.00-54.00	1.00	0.005		6.0	42.0	5.0	28.0	6.0
		Moderate MS patches	51444	54.00-55.00	1.00	0.005	0.60	11.0	229.0		36.0	6.0
		Strong KS pervasive	51445	55.00-56.00	1.00	0.005		10.0	180.0		58.0	8.0
		Moderate HE stockwork	51446	56.00-57.50	1.50	0.005		10.0	27.0		94.0	10.0
		Weak CV microveins	51447	57.50-59.00	1.50	0.005		18.0	177.0		65.0	2.0
		Trace QC stockwork	51448	59.00-60.50	1.50	0.005		40.0	617.0		131.0	6.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Hematite stockwork zone with possible H-3 zones,	51450	60.50-62.00	1.50	0.010		30.0	268.0	30.0	274.0	
		medium green to gray green streaked HFx1 with 20 to	51451	62.00-63.50	1.50	0.005		38.0	98.0		681.0	
		25% light green to light gray green, subhedral	51452	63.50-65.00	1.50	0.005		29.0	280.0		795.0	4.0
		hornblende needles to 2mm., very fine grained to	51453	65.00-66.00	1.00	0.005	1.20	26.0	1166.0		249.0	8.0
		aphantic matrix. ALTERATION- moderate hematite	51454	66.00-67.00	1.00	0.005	1.40	20.0	1252.0	10.0	250.0	6.0
		stockwork with local pervasive, veins and	51455	67.00-68.00	1.00	0.005		23.0	53.0		125.0	2.0
		microfracture controlled, hematite locally moderately	51456	68.00-69.50	1.50	0.005		18.0	34.0		72.0	6.0
		foliated at 40 to 60 degrees, average 45 degrees,	51457	69.50-71.00	1.50	0.005		13.0	77.0		51.0	12.0
		moderate to strong pervasive chlorite, weak to trace	51458	71.00-72.50	1.50	0.005		17.0	29.0		48.0	2.0
		patchy silica, lcoal moderate patchy light green	51459	72.50-74.00	1.50	0.005		22.0	37.0		75.0	4.0
		sericite, probable strong pervasive K-spar, weak	51460	74.00-75.50	1.50	0.005	1.20	34.0	799.0		162.0	16.0
		irregular calcite stockwork with rare quartz and	51461	75.50-76.50	1.00	0.005	0.20	20.0	172.0	5.0	151.0	58.0
		chlorite. Lower contact=E.O.H.	51462	76.50-77.72	1.22	0.005		24.0	47.0		217.0	14.0
<49.83-49.97>		massive hematite vein 50° Strong MT vein Intense HE vein Massive hematite/magnetite vein at 50 degrees. No visible sulphides. H-3 zones?										
<53.00-53.64>		Broken Core Gouge Strong angular rusty broken core with strong coating and fracture fill muddy brown gouge, irregular fracture orientation, weak fault zone.										
<59.00-64.55>		Strong CL pervasive Strong pervasive dark green chlorite.										
<64.55-66.90>		Semi-massive hematite stockwork 45° :Vns =100/m Weak SI patches Strong MS patches Strong HE stockwork Strong hematite stockwork and veins, generally oriented at 45 degrees, with strong patchy light green sericite, weak patchy silica, very weak H-zone? Psuedo brecciated appearance.										
<66.90-69.50>		Strong HE disseminated Strong disseminated and pervasive hematite.										
<73.60-76.82>		stockwork 60° Weak SI patches Strong HE stockwork										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong hematite stockwork at 60 degrees, weak patchy silica.										
<77.00-77.72>		foliated 40° Moderate hematite foliation at 40 degrees.										
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-50

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-50	Date Completed:		Geotech by:
LENGTH: 106.69	Core Diam: BQTK		

Collar Location

Latitude:	1821.66
Departure:	2023.53
Elevation:	1284.81

S U M M A R Y

0.00-0.26	CASING
0.26-13.35	Hornblende Feldspar xtalline
13.35-18.25	Biotite Hbl Fdsp xtalline
18.25-27.40	Hornblende Feldspar xtalline
27.40-28.40	Broken Core
28.40-30.10	Hornblende Feldspar xtalline
30.10-33.55	Biotite Hbl Fdsp xtalline
33.55-44.79	Hornblende Feldspar xtalline *
44.79-50.87	Biotite Hbl Fdsp xtalline
50.87-62.00	Hornblende Feldspar xtalline
62.00-70.80	Semi-massive hematite
70.80-96.80	Hornblende Feldspar xtalline
96.80-97.30	ANDESITE
97.30-106.69	Hornblende Feldspar xtalline

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	0.26	CASING										
		Casing.										
0.26	13.35	Hornblende Feldspar xtalline	51464	1.00-2.00	1.00	0.005		33.0	11.0		194.0	26.0
		Fine grained, grayish-red, mottled, crystalline	51465	2.00-3.00	1.00	0.005	0.20	9.0	12.0		133.0	38.0
		Frs=9/m :Vns =15/m	51466	3.00-4.00	1.00	0.005		11.0	6.0	5.0	280.0	26.0
		Weak SI patches	51467	4.00-5.00	1.00	0.050	1.40	13.0	24.0	10.0	331.0	120.0
		Moderate CL pervasive	51468	5.00-6.00	1.00	0.025		12.0	11.0	5.0	205.0	32.0
		Strong KS patches	51469	6.00-7.00	1.00	0.045		7.0	7.0	5.0	182.0	26.0
		Strong HE pervasive	51470	7.00-8.00	1.00	0.210		8.0	4.0		193.0	20.0
		Weak CV patches	51471	8.00-9.00	1.00	0.675	0.40	20.0	28.0	5.0	317.0	154.0
		Weak QC patches	51472	9.00-10.00	1.00	0.070		9.0	3.0		161.0	24.0
		Weak H-zone, strong hematite stockwork zone, dark	51473	10.00-11.00	1.00	0.410		15.0	13.0	5.0	231.0	24.0
		grayish red to dark red with local green patches of	51474	11.00-12.00	1.00	0.065		18.0	6.0	10.0	149.0	18.0
		HFxl, with 25% light gray, subhedral, usually cryptic,	51475	12.00-13.00	1.00	0.105	0.40	60.0	18.0	10.0	263.0	24.0
		sometimes cream hornblende phenos to 2mm., fine										
		grained to very fine grained matrix. ALTERATION-										
		strong pervasive hematite, moderate pervasive dark										
		gray to greenish black chlorite, weak to moderate										
		patchy silica, weak irregular calcite patches +/-										
		quartz. Lower contact=indistinct.										
<0.26-1.00>		Semi-massive hematite										
		Moderate SI pervasive										
		Strong HE pervasive										
		Strong pervasive hematite, moderate pervasive silica.										
13.35	18.25	Biotite Hbl Fdsp xtalline	51476	13.00-14.00	1.00	0.320	0.60	83.0	24.0	10.0	298.0	20.0
		Fine grained, grayish-red, mottled, crystalline	51477	14.00-15.00	1.00	0.005		10.0	6.0	10.0	183.0	24.0
		Frs=12/m :Vns =20/m	51478	15.00-16.00	1.00	0.010		8.0	13.0	10.0	154.0	52.0
		Trace SI pervasive	51479	16.00-17.00	1.00	0.005		8.0	8.0		85.0	24.0
		Moderate CL pervasive	51480	17.00-18.00	1.00	0.015		10.0	5.0	5.0	67.0	20.0
		Weak MS patches										
		Strong KS patches										
		Strong HE pervasive										
		Weak CV stockwork										
		Strong pervasive hematite and stockwork zone within										
		BHFl with 2 to 3% cream to light gray to copper										
		coloured, euhedral, biotite phenos to 3.5mm., 20%										
		light gray or cream, subhedral hornblende needles to										
		1.5mm., fine grained to very fine grained matrix.										
		ALTERATION- strong pervasive and disseminated hematite										
		with less irregular stockwork and microfracture										
		controlled with good solution fronts, moderate to										
		strong pervasive dark green gray chlorite, trace										
		pervasive silica, trace patchy sericite, weak										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		irregular calcite fracture fill. Lower contact=indistinct.										
18.25	27.40	Hornblende Feldspar xtalline	51481	18.00-19.00	1.00	0.015	0.40	10.0	143.0	10.0	81.0	32.0
		Fine grained, grayish-red, mottled, crystalline	51482	19.00-20.00	1.00	0.005	0.20	9.0	6.0	20.0	173.0	32.0
		stockwork 35°:stockwork 70°	51483	20.00-21.00	1.00	0.015		9.0	14.0	5.0	112.0	8.0
		Frs=8/m :Vns =60/m	51484	21.00-22.00	1.00	0.005		6.0	16.0		72.0	10.0
		Trace SI patches	51485	22.00-23.00	1.00	0.060		9.0	9.0		97.0	10.0
		Weak CL pervasive	51486	23.00-24.00	1.00	0.020		6.0	22.0		61.0	8.0
		Weak MS patches	51487	24.00-25.00	1.00	0.005		9.0	26.0		115.0	22.0
		Strong KS patches	51488	25.00-26.00	1.00	0.010		8.0	10.0		90.0	12.0
		Strong HE pervasive	51489	26.00-27.00	1.00	0.005		14.0	25.0		179.0	10.0
		Weak CV stockwork										
		Weak QC stockwork										
		Dark grayish red with green patches strong hematite stockwork zone, HFxl with 20% light gray calcite, light green translucent, subhedral hornblende phenos to 1.5mm.. Rare to absent light gray to copper coloured biotite phenos, very fine grained to aphanitic matrix. ALTERATION- strong pervasive hematite with local hematite stockwork from 35 to 70 degrees, moderate pervasive dark gray green chlorite, local moderate patchy light green sericite, local weak patchy silica, likely strong patchy K-spar, weak irregular calcite stockwork. Lower contact=fault zone.										
	<19.10-19.90>	Broken Core Bleached, oxidized fracturing 15° Strongly bleached HFxl with weak broken core and strong limonite fracture fill; fractures generally at low angle to core axis, average 15 degrees.										
	<20.45-20.70>	hematite vein microveins 70° Frs=20/m Strong MS patches Strong HE microveins Set of hematite +/- calcite veins at 70 degrees within strong patchy sericite.										
	<23.40-24.50>	stockwork 35° Moderate hematite stockwork at 35 degrees.										
27.40	28.40	Broken Core Bleached, oxidized Weak CL wispy	51490	27.00-28.00	1.00	2.470	0.60	25.0	21.0	40.0	300.0	12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate HE _ pervasive Moderate to strong angular to subangular broken core with weak fine grained to medium grained moderate limonite fracture fill, weak bleaching. Host is HFxl. D.A.P.-18.25 to 27.40m.										
28.40	30.10	Hornblende Feldspar xtalline	51491	28.00-29.00	1.00	0.005		7.0	5.0		92.0	6.0
		Fine grained, grayish-red, mottled, crystalline	51492	29.00-30.00	1.00	0.005		9.0	11.0		54.0	14.0
		Frs=8/m :Vns =10/m										
		Trace SI patches										
		Weak CL pervasive										
		Strong KS patches										
		Strong HE pervasive										
		Weak CV stockwork										
		Weak QC stockwork										
		HFxl. D.A.P.-18.25 to 27.40m.										
30.10	33.55	Biotite Hbl Fdsp xtalline	51493	30.00-31.00	1.00	0.005		10.0	21.0		55.0	14.0
		Fine grained, redish-green, stockwork, crystalline	51494	31.00-32.00	1.00	0.350	0.20	8.0	54.0		44.0	28.0
		foliated	51495	32.00-33.00	1.00	0.005		9.0	62.0		64.0	24.0
		Frs=9/m :Vns =25/m										
		Trace SI patches										
		Moderate CL SHEETED										
		Strong KS patches										
		Moderate HE pervasive										
		Moderate CV stockwork										
		Weak QC stockwork										
		Medium red green BHFl stockwork zone with 3 to 4%										
		light gray to copper coloured biotite phenos to 3mm.,										
		25% light gray to light green translucent, commonly										
		cryptic, subhedral hornblende phenos to 1.5mm., very										
		fine grained to aphanitic matrix. ALTERATION- moderate										
		pervasive and stockwork hematite with less										
		disseminations, moderate sheeted chlorite, moderate										
		light green sericite patches. Lower										
		contact=indistinct.										
33.55	44.79	Hornblende Feldspar xtalline	51496	33.00-34.00	1.00	0.005		8.0	14.0		51.0	6.0
		Fine grained, grayish-red, massive, crystalline	51497	34.00-35.00	1.00	0.010		9.0	27.0		48.0	8.0
		hematite vein 30°:qz-carb veining 20°	51498	35.00-36.00	1.00	0.005		11.0	27.0		33.0	4.0
		Frs=6/m :Vns =25/m	51499	36.00-37.00	1.00	0.010		17.0	17.0		58.0	
		Moderate CL pervasive	51500	37.00-38.00	1.00	0.010		19.0	11.0		116.0	4.0
		Moderate MS patches	51501	38.00-39.00	1.00	0.230		28.0	30.0		209.0	6.0
		Weak MT microveins	51502	39.00-40.00	1.00	0.150		16.0	26.0		129.0	6.0
		Strong HE pervasive	51503	40.00-41.00	1.00	0.055		14.0	44.0	10.0	138.0	6.0
		Weak QC microveins	51504	41.00-42.00	1.00	0.005		13.0	33.0		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
		Strong hematite-stockwork zone, Halo to H-3 zone, medium gray red HFxl with 25% light gray to light green, translucent hornblende phenos to 1.5mm., very fine grained matrix. ALTERATION- strong pervasive and disseminated hematite with massive hematite patches and veins to 8mm., commonly at 30 degrees with magnetite, moderate to weak pervasive dark green to blackish green chlorite, moderate patchy sericite, local weak patchy silica, probably strong patchy pervasive K-spar; weak limonite fracture quartz carbonate veining to 3mm. at 20 degrees.	51505	42.00-43.00	1.00	0.005		13.0	11.0		74.0	6.0
			51506	43.00-44.00	1.00	0.005		10.0	113.0		54.0	10.0
	<41.70-41.80>	.2% chalcopyrite - disseminated MINERALIZATION- trace disseminated calcopyrite, weak malachite staining.										
	<41.70-41.80>	VEINED & DISSEMINATED SULPHIDE MINERALIZATION- trace disseminated calcopyrite, weak malachite staining.										
44.79	50.87	Biotite Hbl Fdsp xtalline	51507	44.00-45.00	1.00	0.005		11.0	42.0		56.0	6.0
		Fine grained, grayish-red, crystalline, stockwork	51508	45.00-46.00	1.00	0.005		12.0	30.0		60.0	2.0
		Frs=8/m :Vns =25/m	51509	46.00-47.00	1.00	0.005		12.0	69.0	5.0	129.0	4.0
		Strong CL pervasive	51510	47.00-48.00	1.00	0.005	0.40	26.0	111.0	25.0	438.0	6.0
		Weak MT patches	51511	48.00-49.00	1.00	0.005		20.0	24.0		325.0	4.0
		Trace EP microveins	51512	49.00-50.00	1.00	0.005	0.80	18.0	120.0	35.0	269.0	4.0
		Moderate HE pervasive										
		Weak QC stockwork										
		Dark gray green to reddish green BHFl with 3% copper coloured, euhedral platy biotite phenos to 4mm., 25% dark gray green, commonly crpytic, subhedral hornblende needles to 2mm., aphanitic matrix. ALTERATION- weak patchy pervasive magnetite, moderate pervasive hematite, strong pervasive very dark greenish black chlorite, weak irregular quartz/calcite stockwork. H-zone halo. Lower contact=quartz/epidote/calcite vein at 70 degrees. Appears similar to magnetite zone to the west on the surface.										
50.87	62.00	Hornblende Feldspar xtalline	51513	50.00-51.00	1.00	0.070	2.20	14.0	306.0	55.0	304.0	28.0
		Fine grained, dark red, crystalline	51514	51.00-52.00	1.00	0.320	3.00	6.0	169.0	105.0	96.0	172.0
		Frs=10/m :Vns =25/m	51515	52.00-53.00	1.00	0.005	0.20	10.0	35.0	10.0	189.0	12.0
		Strong CL pervasive	51516	53.00-54.00	1.00	0.005		13.0	35.0		67.0	6.0
		Moderate HE pervasive	51517	54.00-55.00	1.00	0.005		12.0	21.0		88.0	2.0
		Weak QC stockwork	51518	55.00-56.00	1.00	0.005		9.0	26.0		159.0	8.0
		Very dark reddish green H-zone halo within transition	51519	56.00-57.00	1.00	0.005		8.0	14.0		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
		zone between HFx1 and BHF1 with <1% euhedral, light	51520	57.00-58.00	1.00	0.005		12.0	8.0		71.0	
		green or copper coloured, euhedral biotite phenos to	51521	58.00-59.00	1.00	0.010		15.0	14.0		58.0	
		3mm., 20% dark green to light gray, subhedral	51522	59.00-60.00	1.00	0.010		17.0	24.0		167.0	
		hornblende needles to 2mm., very fine grained matrix.	51523	60.00-61.00	1.00	0.010		9.0	20.0	10.0	330.0	8.0
		ALTERATION- strong dark greenish black chlorite,	51524	61.00-62.00	1.00	0.100		8.0	16.0	10.0	691.0	14.0
		moderate pervasive hematite; moderate irregular										
		calcite stockwork generally with hematite.										
	<50.87-52.30>	Semi-massive hematite										
		Fine grained, red, veined										
		vein 25°										
		Weak SI patches										
		Strong CL pervasive										
		Intense MT vein										
		Intense HE vein										
		H-3 zone with massive hematite/magnetite veins to 20										
		cm., within BHF1. D.A.P.- 44.49 to 50.80m., hematite										
		with steel gray magnetite also as irregular patches,										
		strong pervasive dark gray green black chlorite, weak										
		local patchy silica.										
	<59.85-60.10>	Broken Core										
		Moderate angular broken core, weak limonite fracture										
		fill, 2% fine grained gouge. Likely weak fault splay.										
62.00	66.70	Semi-massive hematite	51525	62.00-63.00	1.00	0.060		25.0	79.0	20.0	291.0	12.0
		Fine grained, greenish-red, veined	51526	63.00-64.00	1.00	0.020		23.0	25.0	5.0	435.0	6.0
		Frs=6/m ;Vns =20/m	51527	64.00-65.00	1.00	0.005		32.0	73.0	5.0	314.0	6.0
		Trace SI patches	51528	65.00-66.00	1.00	0.005		36.0	29.0	5.0	300.0	6.0
		Intense CL pervasive	51529	66.00-67.00	1.00	0.130		33.0	53.0	10.0	341.0	6.0
		Strong HE pervasive	51530	67.00-68.00	1.00	0.005		22.0	8.0	10.0	97.0	6.0
		Weak CV stockwork	51531	68.00-69.00	1.00	0.005		31.0	131.0	10.0	81.0	6.0
		Moderate H-3 zone? with very dark greenish red	51532	69.00-70.00	1.00	0.040		31.0	43.0	40.0	205.0	10.0
		semi-massive sections of pervasive hematite and										
		chlorite to 1.2m. within HFx1. D.A.P.- 52.30 to 62m,										
		also intense zones of chloritic brecciation to 1m..										
		ALTERATION- intense pervasive dark green chlorite of										
		braided fluid streaming, strong pervasive hematite,										
		weak irregular calcite veins to 1cm., commonly with										
		blotchy orange.										
	<62.00-63.20>	vein 70°										
		Intense CL pervasive										
		Intense HE pervasive										
		Intense pervasive hematite and dark green chlorite,										
		weakly veined/foliated at 70 degrees.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<66.05-66.70>		vein 60° Intense CL pervasive Intense pervasive hematite and dark green chlorite, weakly veined/foliated at 60 degrees.										
<66.70-67.55>		Chlorite Streaming Intense CL SHEETED Intense brecciated chloritic streaming. No observable orientation.										
<69.35-69.55>		hematite vein vein 60° Moderate SI vein Intense HE vein Hematite veins to 5cm. with moderate silica at 60 degrees.										
<70.50-70.80>		Semi-massive hematite Intense CL pervasive Intense HE pervasive Intense pervasive hematite and dark green chlorite. No observable orientation to veining or foliation.										
70.80	96.80	Hornblende Feldspar xtalline	51533	70.00-71.00	1.00	0.005		31.0	38.0	10.0	97.0	8.0
		Fine grained, redish-green, crystalline, stockwork	51534	71.00-72.50	1.50	0.005		39.0	11.0	5.0	46.0	6.0
		Frs=10/m :Vns =25/m	51535	72.50-74.00	1.50	0.005		25.0	8.0	5.0	56.0	6.0
		Trace SI patches	51536	74.00-75.50	1.50	0.005		15.0	110.0	10.0	33.0	4.0
		Moderate CL pervasive	51538	75.50-77.00	1.50	0.005		19.0	47.0		35.0	6.0
		Weak MS patches	51539	77.00-78.50	1.50	0.005		15.0	31.0		30.0	6.0
		Strong HE pervasive	51540	78.50-80.00	1.50	0.005		16.0	55.0		30.0	6.0
		Moderate CV stockwork	51541	80.00-81.50	1.50	0.005		16.0	19.0	5.0	35.0	6.0
		Dark reddish green HFxl? with 25% dark green to dark	51542	81.50-83.00	1.50	0.005		16.0	54.0	10.0	30.0	6.0
		gray, subhedral hornblende phenos to 2mm.. Common dark	51543	83.00-84.50	1.50	0.005		16.0	33.0		33.0	8.0
		gray green, euhedral, unknown phenos augites? Never	51544	84.50-86.00	1.50	0.005		15.0	15.0		38.0	8.0
		before observed, very fine grained to aphanitic	51545	86.00-87.50	1.50	0.005		15.0	27.0		40.0	8.0
		matrix. ALTERATION- strong pervasive and microfracture	51546	87.50-89.00	1.50	0.020		13.0	108.0		32.0	6.0
		controlled hematite, strong to moderate pervasive	51547	89.00-90.00	1.00	0.005		30.0	35.0	10.0	83.0	8.0
		chlorite, weak patchy light green sericite, trace	51548	90.00-91.00	1.00	0.005		40.0	57.0	5.0	100.0	10.0
		patchy silica, weak to moderate irregular calcite	51549	91.00-92.00	1.00	0.005		34.0	31.0		97.0	8.0
		stockwork clasts. Lower contact=sharp at 45 degrees.	51550	92.00-93.00	1.00	0.005		20.0	17.0	5.0	58.0	8.0
		Hematite stockwork zone.	51551	93.00-94.50	1.50	0.005		8.0	11.0	5.0	29.0	6.0
<73.60-74.90>		Semi-massive hematite Strong CL pervasive Strong HE pervasive Strong pervasive hematite, strong pervasive chlorite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<87.50-89.30>		Strong CL pervasive Strong HE pervasive Strong pervasive hematite, strong pervasive chlorite.										
<90.50-92.30>		Intense CL pervasive Intense pervasive dark green chlorite.										
96.80	97.30	ANDESITE Fine grained, dark violet, flowbanded contact 45° Frs=1/m Dark brown weakly mottled moderately magnetic late andesite dyke, likely magnetite and sinte? streaming from K-spar on other intersections display disseminated K-spar. Upper contact=lower contact-sharp at 45 degrees, fragment of bleached HFxl within.	51552 51553	94.50-96.00 96.00-96.80	1.50 0.80	0.005 0.005		9.0 12.0	22.0 66.0		34.0 35.0	6.0 12.0
97.30	106.69	Hornblende Feldspar xtalline Fine grained, redish-green, crystalline, stockwork qz-carb veining 80° Frs=6/m :Vns =30/m Moderate CL pervasive Moderate MS patches Strong KS pervasive Trace EP microveins Moderate HE stockwork Moderate QC stockwork Trace QF stockwork HFxl stockwork zone. D.A.P.- 70.80 to 96.80m., with moderate to strong pervasive chlorite, moderate irregular hematite stockwork and microfracture controlled with less pervasive. Local quartz/epidote/calcite veins to 1cm. at 80 degrees.	51554 51555 51556 51557 51558 51559 51560	97.30-98.50 98.50-100.00 100.00-101.50 101.50-103.00 103.00-104.50 104.50-105.50 105.50-106.69	1.20 1.50 1.50 1.50 1.50 1.00 1.19	0.005 0.005 0.005 0.005 0.005 0.055 0.005		31.0 34.0 36.0 31.0 36.0 37.0 28.0	34.0 86.0 91.0 35.0 115.0 101.0 27.0	10.0 10.0 10.0 10.0 25.0 20.0	88.0 115.0 65.0 48.0 81.0 91.0 79.0	10.0 10.0 6.0 8.0 10.0 10.0 10.0
(eoh)												

12/03/96