DRILL CUTTING LOG

Contractor: Hackworth
Drill Type: CP-700 (Truck mounted)
Hole Size: ~~6 1/2"~~ 5 1/2"
Collar Elev.: 5557.8

Coordinates: 24830.61 E / 47104.62 N
Casing Depth: 15' + 20' to solid B.R.
Bearing: N45W Inclination: -50°
Final Depth: 240'

Project: Anchor Hill Expl.
State: SD
Date Started: 6-28-92 ~5:00pm
Date Completed: 6-29-92 ~11:00 AM

Hole No.: R92-858 (A-1)
Sheet 1 of
Property: Gilt Edge
Hole Surveyed: No (collar only)

Logged by: R.J. Marland / S. Ringhiere

(54.2' horiz. proj.)

Distance (feet)	Alteration (Weak / Moderate / Strong)	Total Sulfides (vol %)	Rock Code	Ore Code	Down Hole Location: Distance Down Hole (feet)	% Sulphides	Rock Type	Description: Mineralogy, Alteration, Textures, Grain Size, Fragment Size	Mineralization: Distribution (Massive, Disseminated, Veinlet, Replacement)	Mineralization: Type	Assay: Au	Assay: Ag
			NR	3	0-5	NR	NR	0-5 No Return	0-5 No Return			
			1			Oxide	Fill	5-20 Fill, colluvium of Tptp	5-89 Oxide (No visible sulphides)			
								(15-20) WEATHERED Tptp				
			↓				↓					
			85		20-25			20-89 QUARTZ TRACHYTE PORPHYRY	20-89 Mod to Dk. ORG BRN FeOx			
					45-50							
								DAMP @ ~60'				
					70-75							
					80 85 90			85-90 Thtp MRZ 1-18-95				
			↓	3				89-93 HORNBLENDE TRACHYTE POR. ?	89-106 MIXED			
			50	2					1/2-1% FeS2 in Dk gray chips			
			85		95-100			93-106 QUARTZ TRACHYTE PORPHYRY	Tptp oxidized as above			
			↓	2				95-105 Thtp 1-18-95 MRZ				
			50	1				106-132 HORNBLENDE TRACHYTE PORPHYRY	106-130 SULPHIDE 2-3%			
								Medium to dark green gray-porph. hornblende + plag laths	fg. dissem. pyrite, tr FeOx.			
					120-125							
				1								
			85	2				132-149 QUARTZ TRACHYTE POR.	130-135 MIXED 1/2-1% FeS2			
				3				AS ABOVE	135-145 OXIDE			
				3				130-150 Thtp 1-18-95 MRZ	145-180 MIXED ≤ 1/2% to 2%			
				2	145-150				FeSx			
			50					149-205 HORNBLENDE TRACHYTE POR.	(149-180) MOD TO CLOSE SPACED ? GOETHITE			
								Mix of med to dk grn-gray and lt to dk org brown chip. FeOx strd chips appear to be from veins	Veining			
								and thtp is bleached (H2O Altered?)				
					170-175							

Time	Activity
6-28-92	
4:15 pm	Moving to A-1 (K92-858)
5:00 - 6:00 pm	Set up &, Set CASING Drilled 0-15' pilot hole

6-29-92

6:30 - 7:50 AM	RIG WARM UP
7:50 AM	DRILLING
8:35 AM	140' Switching to wet drill set up Having trouble keeping hole dry between Rods Also RELOADING CAROUSEL
9:08	Steel turning again
9:11	changing fittings on cyclone

Contractor _____ Coordinates _____ Project _____ Hole No. R92- 858

Drill Type _____ Casing Depth _____ State _____ Sheet 2 of 2

Hole Size _____ Bearing _____ Inclination _____ Date Started _____ Property _____

Collar Elev. _____ Final Depth _____ Date Completed _____ Hole Surveyed _____

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	% Sulphides	ROCK TYPE	GEOLOGIC NOTES: DESCRIPTION (MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE)	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE	ASSAY Au	ASSAY Ag
			50	2	175-180			HORNBLENDE TRACHYTE CONT	MIXED CONT			
				1					180 - 190 SULPHIDE			
				1					2-3% FeSx			
				2				190-200 Vein alteration + FeOx as above	190 - 200 MIXED			
				2	195-200				for 1/2% FeSx - Vein FeOx Mottled org BW			
				1					200 - 205 SULPHIDE			
				3				(205-222) FAULT/FRACTURE ZONE Lt Gray	205 - 222 OXIDE			
				3				to lt. grn-gry bleched sericitic to K_2O Alt.	DARK ORG BRN + RED BRN FeOx IN			
				3					Veins H_2O DISCHARGE Changes from			
				2	220-225				ORG BRN TO BLOOD RED			
									222 - 240 MIXED			
								(230-237') as 205-222	1/2 - 1% FeS_x			
								240' END OF HOLE →	END IN sulphide			
					245-250							
					270-275							
					295-300							
					320-325							
					345-350							

DRILL CUTTING LOG

Logged by:

431

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 23-JUL-92

REPORT: R92-11078.4 (COMPLETE)

PROJECT: NONE GIVEN

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT
P4 R92-858 5-10		0.014	P4 R92-858 205-210		0.010
P4 R92-858 10-15		0.018	P4 R92-858 210-215		0.010
P4 R92-858 15-20		0.027	P4 R92-858 215-220		0.006
P4 R92-858 20-25		0.052	P4 R92-858 220-225		<0.002
P4 R92-858 25-30		0.031	P4 R92-858 225-230		<0.002
P4 R92-858 30-35		0.062	P4 R92-858 230-235		0.034
P4 R92-858 35-40		0.144	P4 R92-858 235-240		0.008
P4 R92-858 40-45		0.011	P4 R92-859 10-15		0.010
P4 R92-858 45-50		0.030	P4 R92-859 15-20		0.030
P4 R92-858 50-55		0.029	P4 R92-859 20-25		0.033
P4 R92-858 55-60		0.010	P4 R92-859 25-30		0.035
P4 R92-858 60-65		0.041	P4 R92-859 30-35		0.037
P4 R92-858 65-70		0.016	P4 R92-859 35-40		0.042
P4 R92-858 70-75		0.025	P4 R92-859 40-45		0.012
P4 R92-858 75-80		0.012	P4 R92-859 45-50		0.004
P4 R92-858 80-85		0.011	P4 R92-859 50-55		0.005
P4 R92-858 85-90		0.006	P4 R92-859 55-60		0.003
P4 R92-858 90-95		0.006	P4 R92-859 60-65		<0.002
P4 R92-858 95-100		0.006	P4 R92-859 65-70		0.012
P4 R92-858 100-105		0.015	P4 R92-859 70-75		0.009
P4 R92-858 105-110		0.006	P4 R92-859 75-80		0.003
P4 R92-858 110-115		<0.002	P4 R92-859 80-85		0.012
P4 R92-858 115-120		<0.002	P4 R92-859 85-90		<0.002
P4 R92-858 120-125		0.004	P4 R92-859 90-95		0.011
P4 R92-858 125-130		<0.002	P4 R92-859 95-100		0.003
P4 R92-858 130-135		<0.002	P4 R92-859 100-105		0.003
P4 R92-858 135-140		<0.002	P4 R92-859 105-110		<0.002
P4 R92-858 140-145		0.008	P4 R92-859 110-115		<0.002
P4 R92-858 145-150		0.002	P4 R92-859 115-120		0.015
P4 R92-858 150-155		0.008	P4 R92-859 120-125		0.062
P4 R92-858 155-160		<0.002	P4 R92-859 125-130		0.010
P4 R92-858 160-165		<0.002	P4 R92-859 130-135		0.149
P4 R92-858 165-170		0.004	P4 R92-859 135-140		0.006
P4 R92-858 170-175		0.002	P4 R92-859 140-145		<0.002
P4 R92-858 175-180		<0.002	P4 R92-859 145-150		0.003
P4 R92-858 180-185		<0.002	P4 R92-859 150-155		<0.002
P4 R92-858 185-190		<0.002	P4 R92-859 155-160		<0.002
P4 R92-858 190-195		0.005	P4 R92-859 160-165		<0.002
P4 R92-858 195-200		0.002	P4 R92-859 165-170		<0.002
P4 R92-858 200-205		0.005	P4 R92-859 170-175		<0.002

5-15
10' @ .016

15 - 75

60' @ .040

9.64 - 48.21

75-85
10' @ .012

205-215
10' @ .010

230-235
147.84 - 151.06

15-40
25' @ .037

$\bar{x}$ = .045

65-85
20' @ .009

$\bar{x}$ = .009

120-135
15' @ .071

REPORT: R92-11078.4 (COMPLETE)

DATE PRINTED: 23-JUL-92
PROJECT: NONE GIVEN PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU OPT
P4 R92-858 5-10		0.014
P4 R92-858 10-15		0.018
P4 R92-858 15-20		0.027
P4 R92-858 20-25		0.052
P4 R92-858 25-30		0.031
P4 R92-858 30-35		0.062
P4 R92-858 35-40		0.144
P4 R92-858 40-45		0.011
P4 R92-858 45-50		0.030
P4 R92-858 50-55		0.029
P4 R92-858 55-60		0.010
P4 R92-858 60-65		0.041
P4 R92-858 65-70		0.016
P4 R92-858 70-75		0.025
P4 R92-858 75-80		0.012
P4 R92-858 80-85		0.011
P4 R92-858 85-90		0.006
P4 R92-858 90-95		0.006
P4 R92-858 95-100		0.006
P4 R92-858 100-105		0.015
P4 R92-858 105-110		0.006
P4 R92-858 110-115		<0.002
P4 R92-858 115-120		<0.002
P4 R92-858 120-125		0.004
P4 R92-858 125-130		<0.002
P4 R92-858 130-135		<0.002
P4 R92-858 135-140		<0.002
P4 R92-858 140-145		0.008
P4 R92-858 145-150		0.002
P4 R92-858 150-155		0.008
P4 R92-858 155-160		<0.002
P4 R92-858 160-165		<0.002
P4 R92-858 165-170		0.004
P4 R92-858 170-175		0.002
P4 R92-858 175-180		<0.002
P4 R92-858 180-185		<0.002
P4 R92-858 185-190		<0.002
P4 R92-858 190-195		0.005
P4 R92-858 195-200		0.002
P4 R92-858 200-205		0.005

15-75
60' @ .037

SAMPLE NUMBER	ELEMENT UNITS	AU OPT
P4 R92-858 205-210		0.010
P4 R92-858 210-215		0.010
P4 R92-858 215-220		0.006
P4 R92-858 220-225		<0.002
P4 R92-858 225-230		<0.002
P4 R92-858 230-235		0.034
P4 R92-858 235-240		0.008
P4 R92-859 10-15		0.010
P4 R92-859 15-20		0.030
P4 R92-859 20-25		0.033
P4 R92-859 25-30		0.035
P4 R92-859 30-35		0.037
P4 R92-859 35-40		0.042
P4 R92-859 40-45		0.012
P4 R92-859 45-50		0.004
P4 R92-859 50-55		0.005
P4 R92-859 55-60		0.003
P4 R92-859 60-65		<0.002
P4 R92-859 65-70		0.012
P4 R92-859 70-75		0.009
P4 R92-859 75-80		0.003
P4 R92-859 80-85		0.012
P4 R92-859 85-90		<0.002
P4 R92-859 90-95		0.011
P4 R92-859 95-100		0.003
P4 R92-859 100-105		0.003
P4 R92-859 105-110		<0.002
P4 R92-859 110-115		<0.002
P4 R92-859 115-120		0.015
P4 R92-859 120-125		0.062
P4 R92-859 125-130		0.010
P4 R92-859 130-135		0.149
P4 R92-859 135-140		0.006
P4 R92-859 140-145		<0.002
P4 R92-859 145-150		0.003
P4 R92-859 150-155		<0.002
P4 R92-859 155-160		<0.002
P4 R92-859 160-165		<0.002
P4 R92-859 165-170		<0.002
P4 R92-859 170-175		<0.002

15-40
25' @ .035

120-135
15' @ .074

```
"TITLE 20-07-92 19:05:52 R92-11078.4   MACLEOD                14/07/92"
"CLIENT BROHM MINING CORPORATION                                       "
"PROJECT NONE GIVEN      #SAMPLES:   81 REFERENCE: NONE GIVEN                    "
"SPECIAL VALUES"
"  IS Insufficient Sample"
"  -9 No Value Recorded"
" Values above the upper limit are shown as  +uplimt"
" Values below the lower limit are shown as  -lolmt   (ie not detected)"
"DETERMINATIONS"
"     ELNAME METHO ECO UNI #SAM LOLMT UPLIMT COMMENTS"
"  01 Au     FA        OPT   81 0.001 9166.0 Results Reported     "
"SAMPLE PREPS"
"  40 SAMPLE TYPE=P      PREPARED PULP       "
"  41 PA1=  81           AS RECEIVED         "
"****"
"FORMAT (A8,1X,A1,A1,1X,A20,1(1X,A7,A1))"
"BEGIN " "Type" "Frac" "Sample ID"          "    Au"
"10780001" "P" "4" "R92-858 5-10        "    0.014
"10780002" "P" "4" "R92-858 10-15       "    0.018
"10780003" "P" "4" "R92-858 15-20       "    0.027
"10780004" "P" "4" "R92-858 20-25       "    0.052
"10780005" "P" "4" "R92-858 25-30       "    0.031
"10780006" "P" "4" "R92-858 30-35       "    0.062
"10780007" "P" "4" "R92-858 35-40       "    0.127
"10780008" "P" "4" "R92-858 40-45       "    0.011
"10780009" "P" "4" "R92-858 45-50       "    0.030
"10780010" "P" "4" "R92-858 50-55       "    0.029
"10780011" "P" "4" "R92-858 55-60       "    0.010
"10780013" "P" "4" "R92-858 60-65       "    0.041
"10780014" "P" "4" "R92-858 65-70       "    0.016
"10780015" "P" "4" "R92-858 70-75       "    0.025
"10780016" "P" "4" "R92-858 75-80       "    0.012
"10780017" "P" "4" "R92-858 80-85       "    0.011
"10780018" "P" "4" "R92-858 85-90       "    0.006
"10780019" "P" "4" "R92-858 90-95       "    0.006
"10780020" "P" "4" "R92-858 95-100      "    0.006
"10780021" "P" "4" "R92-858 100-105     "    0.015
"10780022" "P" "4" "R92-858 105-110     "    0.006
"10780023" "P" "4" "R92-858 110-115     "   -0.002
"10780024" "P" "4" "R92-858 115-120     "   -0.002
"10780025" "P" "4" "R92-858 120-125     "    0.004
"10780026" "P" "4" "R92-858 125-130     "   -0.002
"10780027" "P" "4" "R92-858 130-135     "   -0.002
"10780028" "P" "4" "R92-858 135-140     "   -0.002
"10780029" "P" "4" "R92-858 140-145     "    0.008
"10780030" "P" "4" "R92-858 145-150     "    0.002
"10780031" "P" "4" "R92-858 150-155     "    0.008
"10780032" "P" "4" "R92-858 155-160     "   -0.002
"10780033" "P" "4" "R92-858 160-165     "   -0.002
"10780034" "P" "4" "R92-858 165-170     "    0.004
"10780035" "P" "4" "R92-858 170-175     "    0.002
"10780037" "P" "4" "R92-858 175-180     "   -0.002
"10780038" "P" "4" "R92-858 180-185     "   -0.002
"10780039" "P" "4" "R92-858 185-190     "   -0.002
"10780040" "P" "4" "R92-858 190-195     "    0.005
"10780041" "P" "4" "R92-858 195-200     "    0.002
"10780042" "P" "4" "R92-858 200-205     "    0.005
"10780043" "P" "4" "R92-858 205-210     "    0.010
"10780044" "p" "4" "R92-858 210-215     "    0.010
"10780045" "P" "4" "R92-858 215-220     "    0.006
"10780046" "P" "4" "R92-858 220-225     "   -0.002
"10780047" "P" "4" "R92-858 225-230     "   -0.002
"10780048" "P" "4" "R92-858 230-235     "    0.034
"10780049" "P" "4" "R92-858 235-240     "    0.008
```

15-75

60' @ .038

230-235 5' @

"10780049"	"P"	"4"	"R92-859	235-240	"	0.008
"10780050"	"P"	"4"	"R92-859	10-15	"	0.010
"10780051"	"P"	"4"	"R92-859	15-20	"	0.030
"10780052"	"P"	"4"	"R92-859	20-25	"	0.036
"10780053"	"P"	"4"	"R92-859	25-30	"	0.035
"10780054"	"P"	"4"	"R92-859	30-35	"	0.037
"10780055"	"P"	"4"	"R92-859	35-40	"	0.042
"10780056"	"P"	"4"	"R92-859	40-45	"	0.012
"10780057"	"P"	"4"	"R92-859	45-50	"	0.004
"10780058"	"P"	"4"	"R92-859	50-55	"	0.005
"10780059"	"P"	"4"	"R92-859	55-60	"	0.003
"10780061"	"P"	"4"	"R92-859	60-65	"	-0.002
"10780062"	"P"	"4"	"R92-859	65-70	"	0.012
"10780063"	"P"	"4"	"R92-859	70-75	"	0.009
"10780064"	"P"	"4"	"R92-859	75-80	"	0.003
"10780065"	"P"	"4"	"R92-859	80-85	"	0.012
"10780066"	"P"	"4"	"R92-859	85-90	"	-0.002
"10780067"	"P"	"4"	"R92-859	90-95	"	0.011
"10780068"	"P"	"4"	"R92-859	95-100	"	0.003
"10780069"	"P"	"4"	"R92-859	100-105	"	0.003
"10780070"	"P"	"4"	"R92-859	105-110	"	-0.002
"10780071"	"P"	"4"	"R92-859	110-115	"	-0.002
"10780072"	"P"	"4"	"R92-859	115-120	"	0.015
"10780073"	"P"	"4"	"R92-859	120-125	"	0.062
"10780074"	"P"	"4"	"R92-859	125-130	"	0.010
"10780075"	"P"	"4"	"R92-859	130-135	"	0.162
"10780076"	"P"	"4"	"R92-859	135-140	"	0.006
"10780077"	"P"	"4"	"R92-859	140-145	"	-0.002
"10780078"	"P"	"4"	"R92-859	145-150	"	0.003
"10780079"	"P"	"4"	"R92-859	150-155	"	-0.002
"10780080"	"P"	"4"	"R92-859	155-160	"	-0.002
"10780081"	"P"	"4"	"R92-859	160-165	"	-0.002
"10780082"	"P"	"4"	"R92-859	165-170	"	-0.002
"10780083"	"P"	"4"	"R92-859	170-175	"	-0.002
"10780085"	"P"	"4"	"R92-859	175-180	"	-0.002

"END"

15-40
25' @ .036

120-135
15' @ .078

```
"TITLE 20-07-92 19:05:52 R92-11078.4   MACLEOD                14/07/92"
"CLIENT BROHM MINING CORPORATION                                       "
"PROJECT NONE GIVEN      #SAMPLES:   81 REFERENCE: NONE GIVEN                    "
"SPECIAL VALUES"
"  IS Insufficient Sample"
"  -9 No Value Recorded"
" Values above the upper limit are shown as  +uplimt"
" Values below the lower limit are shown as  -lolmt   (ie not detected)"
"DETERMINATIONS"
"     ELNAME METHO ECO UNI #SAM LOLMT UPLIMT COMMENTS"
"  01 Au     FA        OPT   81 0.001 9166.0 Results Reported     "
"SAMPLE PREPS"
"  40 SAMPLE TYPE=P      PREPARED PULP        "
"  41 PA1=  81           AS RECEIVED          "
"****"
"FORMAT (A8,1X,A1,A1,1X,A20,1(1X,A7,A1))"
"BEGIN " "Type" "Frac" "Sample ID"          "    Au"
"10780001" "P" "4" "R92-858 5-10        "    0.014
"10780002" "P" "4" "R92-858 10-15       "    0.018
"10780003" "P" "4" "R92-858 15-20       "    0.027
"10780004" "P" "4" "R92-858 20-25       "    0.052
"10780005" "P" "4" "R92-858 25-30       "    0.031
"10780006" "P" "4" "R92-858 30-35       "    0.062
"10780007" "P" "4" "R92-858 35-40       "    0.127
"10780008" "P" "4" "R92-858 40-45       "    0.011
"10780009" "P" "4" "R92-858 45-50       "    0.030
"10780010" "P" "4" "R92-858 50-55       "    0.029
"10780011" "P" "4" "R92-858 55-60       "    0.010
"10780013" "P" "4" "R92-858 60-65       "    0.041
"10780014" "P" "4" "R92-858 65-70       "    0.016
"10780015" "P" "4" "R92-858 70-75       "    0.025
"10780016" "P" "4" "R92-858 75-80       "    0.012
"10780017" "P" "4" "R92-858 80-85       "    0.011
"10780018" "P" "4" "R92-858 85-90       "    0.006
"10780019" "P" "4" "R92-858 90-95       "    0.006
"10780020" "P" "4" "R92-858 95-100      "    0.006
"10780021" "P" "4" "R92-858 100-105     "    0.015
"10780022" "P" "4" "R92-858 105-110     "    0.006
"10780023" "P" "4" "R92-858 110-115     "   -0.002
"10780024" "P" "4" "R92-858 115-120     "   -0.002
"10780025" "P" "4" "R92-858 120-125     "    0.004
"10780026" "P" "4" "R92-858 125-130     "   -0.002
"10780027" "P" "4" "R92-858 130-135     "   -0.002
"10780028" "P" "4" "R92-858 135-140     "   -0.002
"10780029" "P" "4" "R92-858 140-145     "    0.008
"10780030" "P" "4" "R92-858 145-150     "    0.002
"10780031" "P" "4" "R92-858 150-155     "    0.008
"10780032" "P" "4" "R92-858 155-160     "   -0.002
"10780033" "P" "4" "R92-858 160-165     "   -0.002
"10780034" "P" "4" "R92-858 165-170     "    0.004
"10780035" "P" "4" "R92-858 170-175     "    0.002
"10780037" "P" "4" "R92-858 175-180     "   -0.002
"10780038" "P" "4" "R92-858 180-185     "   -0.002
"10780039" "P" "4" "R92-858 185-190     "   -0.002
"10780040" "P" "4" "R92-858 190-195     "    0.005
"10780041" "P" "4" "R92-858 195-200     "    0.002
"10780042" "P" "4" "R92-858 200-205     "    0.005
"10780043" "P" "4" "R92-858 205-210     "    0.010
"10780044" "p" "4" "R92-858 210-215     "    0.010
"10780045" "P" "4" "R92-858 215-220     "    0.006
"10780046" "P" "4" "R92-858 220-225     "   -0.002
"10780047" "P" "4" "R92-858 225-230     "   -0.002
"10780048" "P" "4" "R92-858 230-235     "    0.034
"10780049" "P" "4" "R92-858 235-240     "    0.008
"10780050" "P" "4" "R92-859 10-15       "    0.010
"10780051" "P" "4" "R92-859 15-20       "    0.030
"10780052" "P" "4" "R92-859 20-25       "    0.036
"10780053" "P" "4" "R92-859 25-30       "    0.035
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15-75

60' @ .038

230-235 5' @

15-40