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DIAMOND DRILLING ASSESSMENT REPORT

SUSTUT 1-2 and NT 1-3 CLAIMS, MINING LEASE #315076

SUSTUT COPPER PROPERTY

OMINECA MINING DIVISION

NTS 94D 10E

LAT. 56° 36' 12" N. LONG. 129° 40' 40" W.

DATE STARTED: JULY 28, 2002

DATE COMPLETED: AUGUST 30, 2002

OWNER/OPERATOR: DOUBLESTAR RESOURCES Ltd.

AUTHOR: Paul D. Gray, B.Sc.

SUBMITTED: VANCOUVER, BC DATE: May 13, 2003

**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

27,141

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1. INTRODUCTION

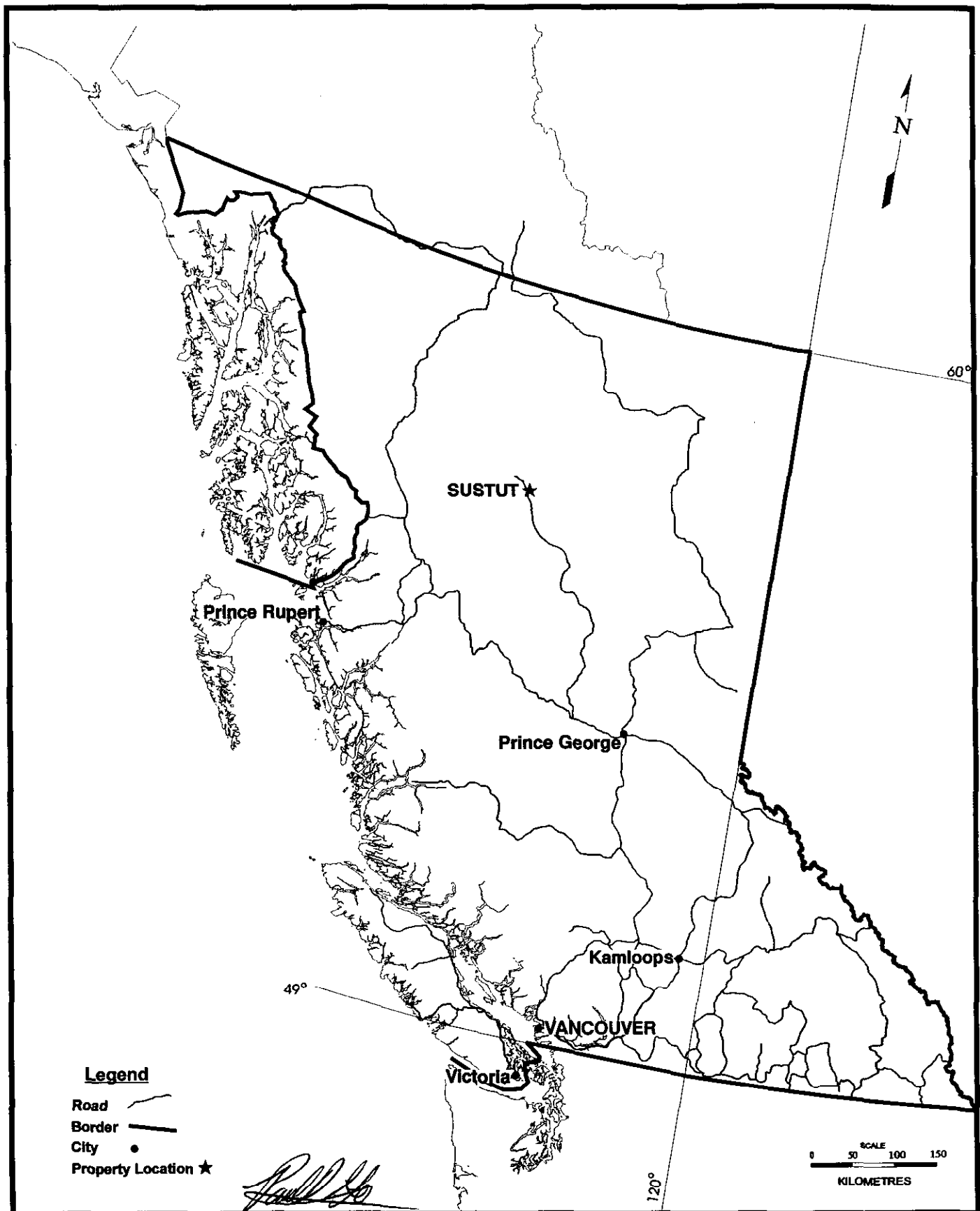
LOCATION AND ACCESS

The Sustut Property is located in northeastern British Columbia, 193 kilometres (by air) northeast of Smithers (Figures 1 and 2). The property is situated near the headwaters of the Sustut River and is within N.T.S. map sheet 94D/10E at approximately 56° 36' 12" North latitude, 129° 40' 40" West longitude (U.T.M. Zone 09 coordinates: 643100 E, 6275610 N, N.A.D. 27 datum). The property elevation ranges from 1,200 metres to 2,100 metres above sea level, and topography can be characterized as rugged, glaciated and mountainous. Tree line occurs at approximately 1,500 metres elevation, well below exposures of the deposit.

Access to the property is only possible by helicopter. The Omineca Resources Access Road, a well-maintained two-lane gravel road, is 10 kilometres east of the centre of the mining lease (Figure 2). The road provides access to the Kemess Mine from paved highways north of Prince George or Fort St. James. Kemess maintains an airstrip at the mine to support the fly-in fly-out operation. An unmaintained gravel airstrip is located 12 kilometres north of the property in Moose Valley, along the Omineca Resources Access Road.

OWNERSHIP

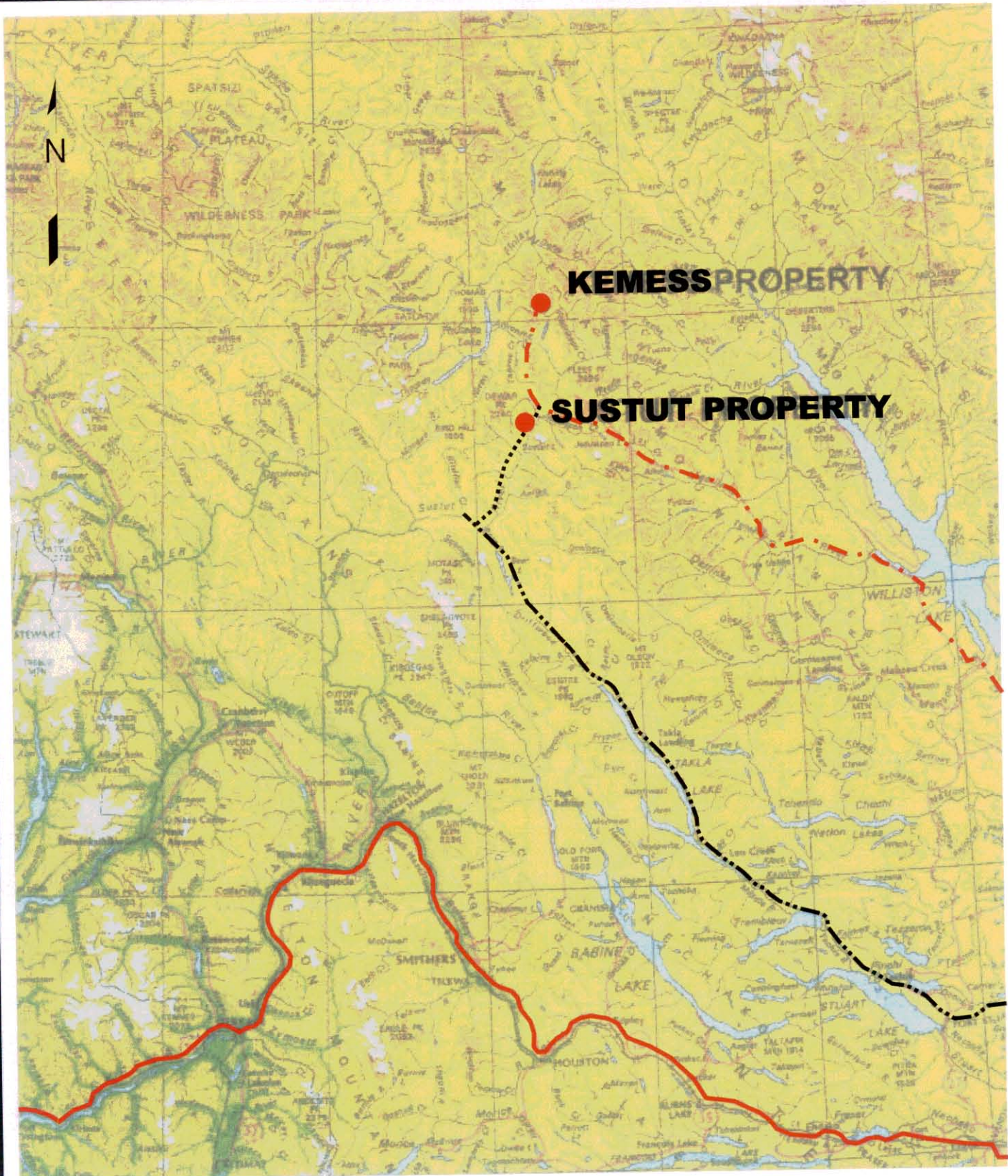
Doublestar Resources Ltd. ("Doublestar") holds a 100% interest in the Sustut Property. Falconbridge Limited ("Falconbridge") retains a right to back-in to 50.1% of the property exercisable at any time up to and including a production decision by paying to Doublestar 150% of the latter's direct exploration expenses on the property.



DOUBLESTAR RESOURCES
Sustut Project

TITLE

Figure # 1
Sustut Copper Project Property Location



LEGEND	
.....	CONNECTOR ROAD
- - - -	OMINECA RESOURCES ACCESS ROAD
————	HIGHWAY
· · · ·	RAILROAD



DOUBLESTAR RESOURCES
Sustut Project

TITLE

Figure # 2

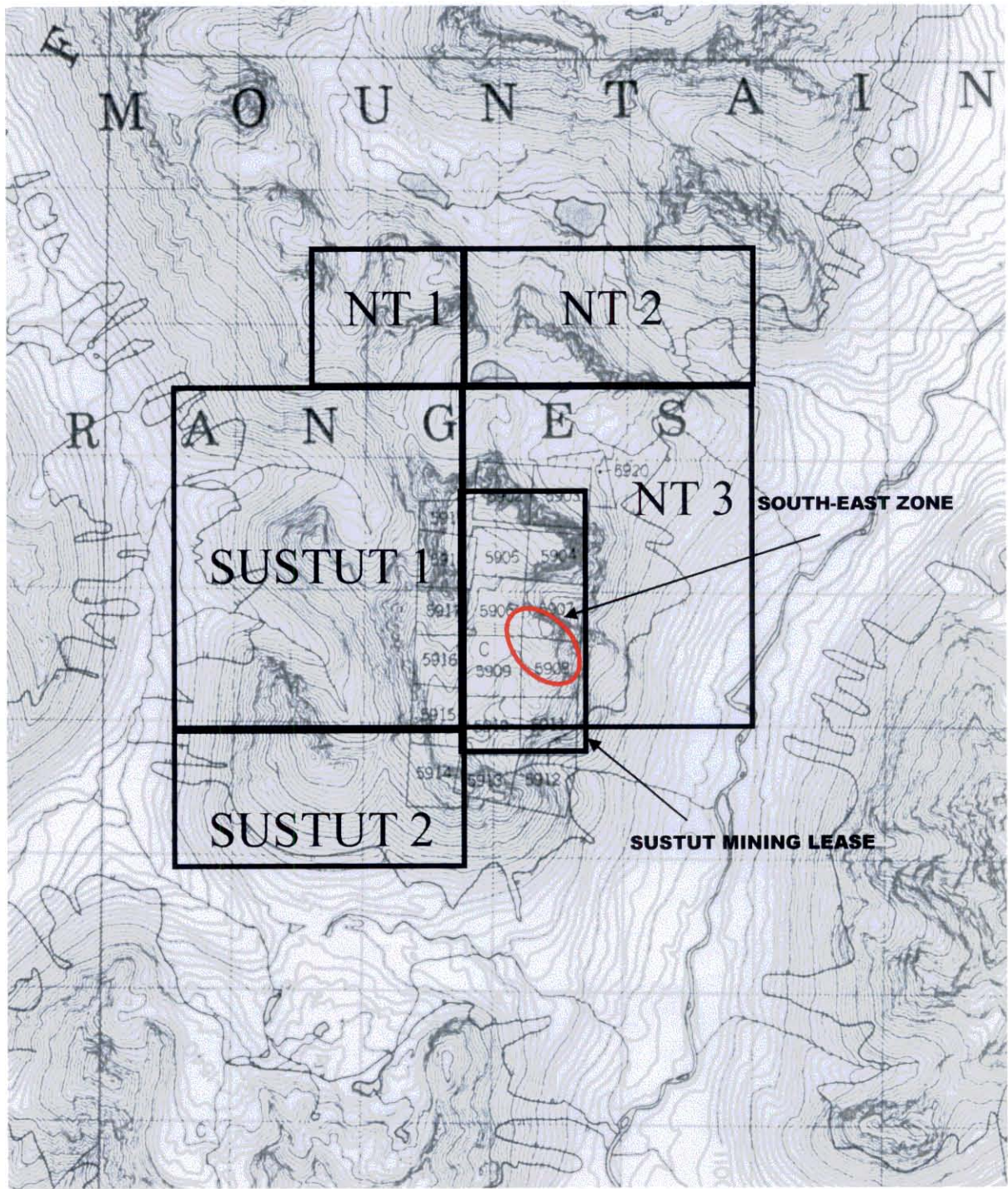
SUSTUT REGIONAL LOCATION MAP

MINERAL TENURE

The property consists of one (1) mining lease (approximately 200 hectares) and five (5) 4-post mineral claims, within the Omineca Mining Division (Figure 3). The 30-year lease will expire in 2023 and has an annual renewal date of June 15 and an annual rental cost of C\$2,000.

Table 1 Mineral Lease Tenure Status

Lease	Tenure #	Size	Expiry Date
Mining Lease	315076	200 ha.	June 15, 2003
Sustut 1	379608	20 units	August 3, 2011
Sustut 2	379609	8 units	August 3, 2011
NT 1	395833	4 units	August 12, 2003
NT 2	395834	8 units	August 12, 2003
NT 3	395835	20 units	August 12, 2003



Paul A. [Signature]



DOUBLESTAR RESOURCES
Sustut Project

TITLE

Figure # 3

SUSTUT MINERAL CLAIMS AND MINING LEASE

EXPLORATION HISTORY

The Sustut copper deposit was discovered in 1971 by Gunnar Thomason and was subsequently explored by Falconbridge Ltd. between 1972 and 1974. Exploration activities were suspended in 1974 due to adverse political and economic conditions. By the end of 1974 cumulative drilling on the Sustut property was 17,195 metres of AQ core in 139 holes. Cumulative exploration expenditures by Falconbridge to 1999 were approximately 1 million Canadian dollars (Doublestar, 1999). Doublestar Resources Ltd. subsequently drilled 49 diamond drillholes between 2000 and 2002.

Table 2 Summary of Previous Work on the Sustut Property

Year	Exploration Activities
1971	Reconnaissance exploration identified malachite stained cliffs, prospecting, mapping and sampling. Discovery of the Sustut prospect by Gunnar Thomason;
1972	Established camp, completed 26 AQ diamond drill holes (2,534 metres), and 2 pack sack drill holes (XRPS; 20.43 metres) geological mapping, aerial photogrammetry, preliminary metallurgical tests;
1973	Completed 61 AQ diamond drill holes (7,050 metres), mapping, mineral inventory estimation by Cluff, pit design and minable reserve calculation by Munro, helicopter-based magnetometer/electromagnetics survey of Sustut Valley, ground magnetometer/electromagnetics anomaly truthing, petrographic studies. Over 3000 stream sediment samples collected and analyzed regionally, approx. 350 from streams surrounding the Sustut massif.
1974	Completed 39 AQ infill drill holes (4,375 metres), 13 reconnaissance AQ drill holes (3,236 metres), "in-house" feasibility study, metallurgical tests, legal claim survey, mineral inventory estimation by Wrigglesworth, trace element geochemistry for deep drill holes #88 and #110;
1975	Continued feasibility studies, geochemical statistical analysis.
1997	Cross Lake Minerals commissioned the following work: mineral resource evaluation (by SRK); in-situ and minable reserves were calculated (Gemcom); valuation report (by SRK); environmental considerations/due diligence review (by Hallum, Knight and Piésold);
1999	International Skyline Gold Corporation completed an in-house geological model and block model (Surpac) to identify high grade reserves.
2000	Doublestar Resources Ltd. drilled an infill program with a total of 22 BQTK holes aggregating 2,104.7 m. were drilled between August 2 and 18. Snowden subsequently outlined a geological resource of 5,937,000 tonnes of 1.87% Cu and 6.11 g/t silver at a cutoff grade of 0.70 %. 23 Stream sediment samples were collected and analyzed.

2. GEOLOGY AND MINERALIZATION

GENERAL GEOLOGY

The general geology of the region comprises a sequence of northwest striking formations which become increasingly younger to the southwest. The oldest rocks are bands and inliers of sedimentary and volcanic rocks of the Permian Asitka Group. Rocks of the Upper Triassic Takla and Lower to Middle Jurassic Hazelton groups unconformably overly these rocks, as outliers to the east and as a broad belt to the west. This assemblage forms a thick sequence of volcanic flows and volcanoclastics with minor non-volcanic sedimentary rocks. In the extreme west, the Upper Cretaceous to Eocene Sustut Group overlies the Takla Group unconformably. The Sustut Group is made up of non-volcanic sedimentary rocks with minor tuffs. Stocks of diorite to granodiorite intrude the Takla Group rocks in the east. They form a northwest trending belt, probably related to the Jurassic Omineca Intrusions. A few small stocks, apparently of the same intrusive phase, occur west of the main belt of Takla Group rocks. Minor basalt, andesite and porphyry dykes, sills and flows are found throughout the area of Takla Group rocks. Two groups of intrusive rocks are distinguished: an older group, probably Cretaceous and a younger Tertiary group. These intrusions are probably related to the Cretaceous Bulkley Intrusions and the Eocene Kastberg Intrusions.

LOCAL GEOLOGY

The immediate area of the Sustut deposit is underlain by three fundamental stratigraphic subdivisions of the Upper Triassic Savage Mountain Formation (Takla Group) comprising some 6,096 metres of rapidly deposited green and red basaltic to andesitic rocks. The "**lower member**" is characterized by dark, green, massive flows and pillow lavas. The flows range from augite porphyry basalt through feldspar porphyry, and amygdaloidal feldspar porphyry to aphanitic basaltic andesite. Predominantly overlying, and to a minor extent interbedded with the flows, are massive breccia and bedded tuffs

and breccias. The breccias consist of large blocks of the underlying and adjacent flows in a tuffaceous matrix of similar composition. Fragments are poorly sorted in the massive breccias, but exhibit some grading in the bedded tuffs and breccias.

The base of the "**middle member**" is marked by a thin layer of fine volcanic detritus comprised of tuffaceous siltstones and sandstones. Overlying this is a thick sequence of volcanoclastics, which completes the lower cycle of the middle member. The upper cycle is a repetition of the lower cycle, commencing with a thin tuffaceous siltstone and wacke-sandstone unit overlain by a thick pile of volcanoclastics. The volcanoclastics are generally massive agglomerates, but locally display graded bedding, crossbedding and, high in the upper sequence, mud cracks and rare ripple marks. The clast content is substantially more heterogeneous than that in the lower member volcanic breccia and increases in heterogeneity upwards. Throughout the whole of the middle member all detritus is apparently derived from the lower member. Within both volcanoclastic sequences there is a general trend upward from green to red colour.

Clasts throughout the volcanoclastic piles are poorly sorted, ranging in size from grit to blocks 4 metres in diameter. The larger clasts tend to be subrounded or rounded, whereas the smaller fractions are almost entirely angular to sub-angular.

The "**upper member**" is highly heterogeneous. The upper part is characterised by a sequence of argillaceous and arenaceous clastic sedimentary rocks, largely of volcanic composition and predominantly red in colour. Bedding is common, and well developed. The lower part of the member is more varied, with lenses of green and red volcanic conglomerate containing clasts of the underlying Takla assemblage, and foreign chert, limestone, rhyolite, and jasper. These lower units are of limited extent, and are marked by rapid changes in thickness and composition.

PROPERTY GEOLOGY

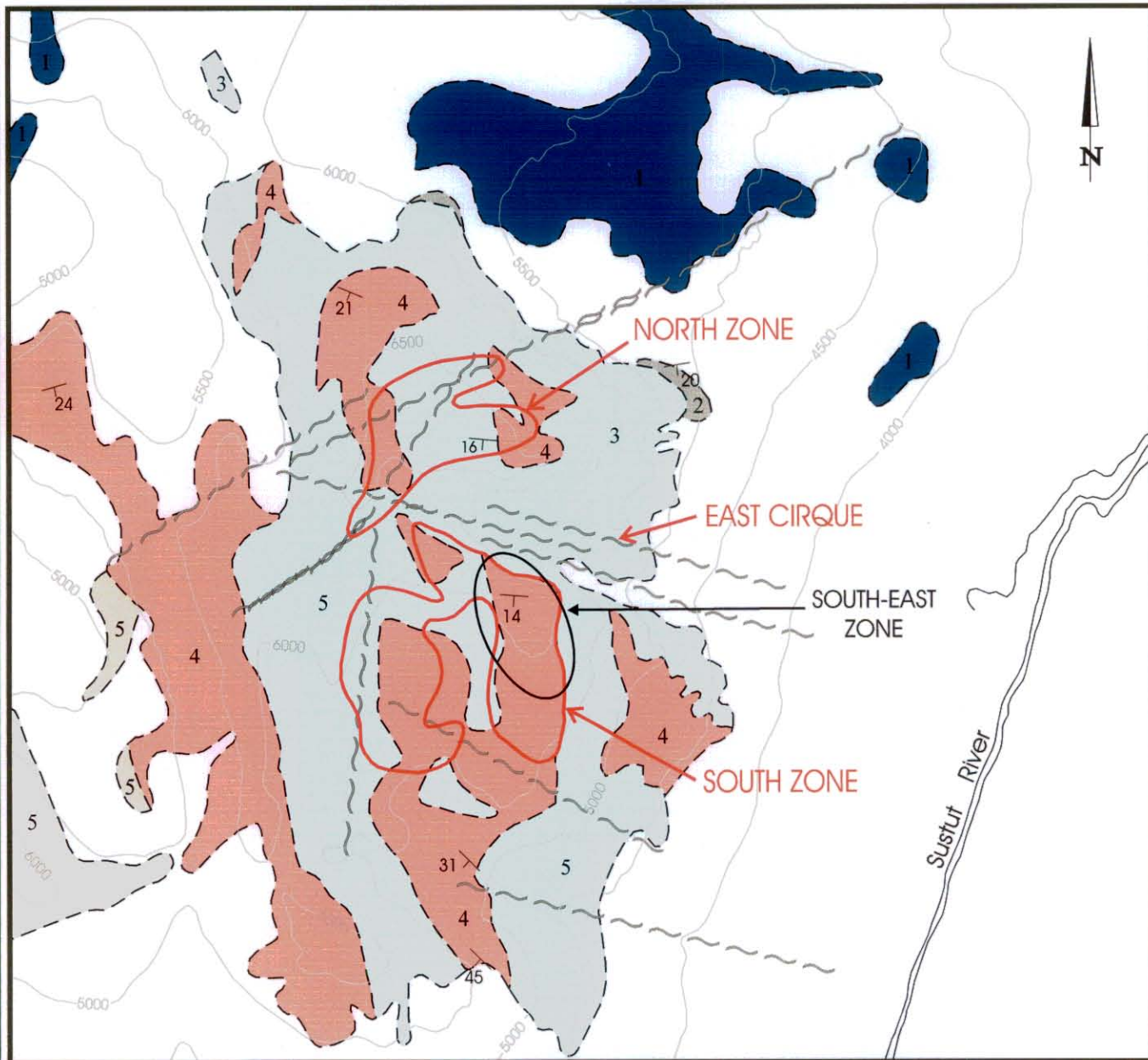
The upper volcanoclastic unit of the middle member hosts the copper mineralization of the Sustut deposit (Figure 4). It is a highly variable sequence of rocks ranging from augite porphyry basalt to andesite in composition. The sediments range from: rocks composed of greater than 60 per cent clasts, by volume (many of which are 0.6 metre or more in diameter); rocks with abundant small clasts; rocks with a few large and a few small clasts; to an arenaceous grit.

Argillaceous tuff beds are interbedded with the grits. Two colours predominate in the rocks: a dark green and a deep brownish red. On a large scale, there is a tendency for green to predominate at the base of the middle member and red rocks to increase in abundance upwards. Most of the sequence is comprised of massive, unsorted volcanoclastic conglomerates, with interspersed sections displaying abundant graded bedding and crossbedding on several scales. The clasts throughout the sequence include red and green aphanitic andesites, green augite porphyry, augite-feldspar porphyry, grey bladed feldspar porphyry and red and green tuff and tuff breccia.

There are few intrusive rocks in the immediate vicinity of the Sustut property. Three kilometres southwest of the deposit, quartz-feldspar porphyry sills and dykes intrude Upper Formation rocks, while intrusive rocks on the property are restricted to two suites of dykes. The dykes are comprised of narrow, randomly oriented andesite to diabase that are believed to be coeval with Hazelton Group volcanism (Wilton, 1978). A narrow, north-northeast trending fine-grained alkali basalt dyke crosscuts both of the deposit areas. The dyke shows a lateral offset of 65 metres along a late brittle east-west trending fracture/fault zone that is interpreted to underlie the East Cirque area.

Numerous measurements show that strata have an average strike of 100° dipping 15° to the southwest in the north, gradually swinging to a more northwesterly strike and steeper dips ($140^{\circ}/55^{\circ}$ SW) in the southern sector. Stereo plots indicate a gentle fold with an axial plane striking 167° and plunging 14° southeast (Church, 1973).

SUSTUT DEPOSIT - GENERAL GEOLOGY



Scale



600 M

LEGEND

- Drift Cover
- 5 Polymictic Conglomerate
- 4 Upper Red Agglomerates and Tuffs
- 3 Upper Green Agglomerates and Tuffs
- 2 Laminated Tuffs and Siltstones
- 1 Lower Agglomerates and Tuffs
- Cross Section
- Fracture Zone or Fault
- 20 Bedding Attitude
- Contour interval = 500ft

MODIFIED FROM FALCONBRIDGE SUMMARY GEOLOGY MAP



DOUBLESTAR RESOURCES
Sustut Project Assessment Report 2000

TITLE

**LOCAL GEOLOGY MAP OF THE
SUSTUT PROPERTY**

FILENAME:

Figure 4.CDR

PROJECT NUMBER

DRAWING NUMBER

4

Regional faulting along north-northwest and northeast trends is of major proportions. The Two Lake Creek Fault is one of the most significant structural features in the area, which has a vertical displacement of over a 1000 metres. It is identified as part of the Omineca Fault Zone, a northern extension of the Pinchi Fault system. On the property the strongest fractures have an average strike of 020° dipping 85° southeast, and 100° dipping vertically (Church, 1973).

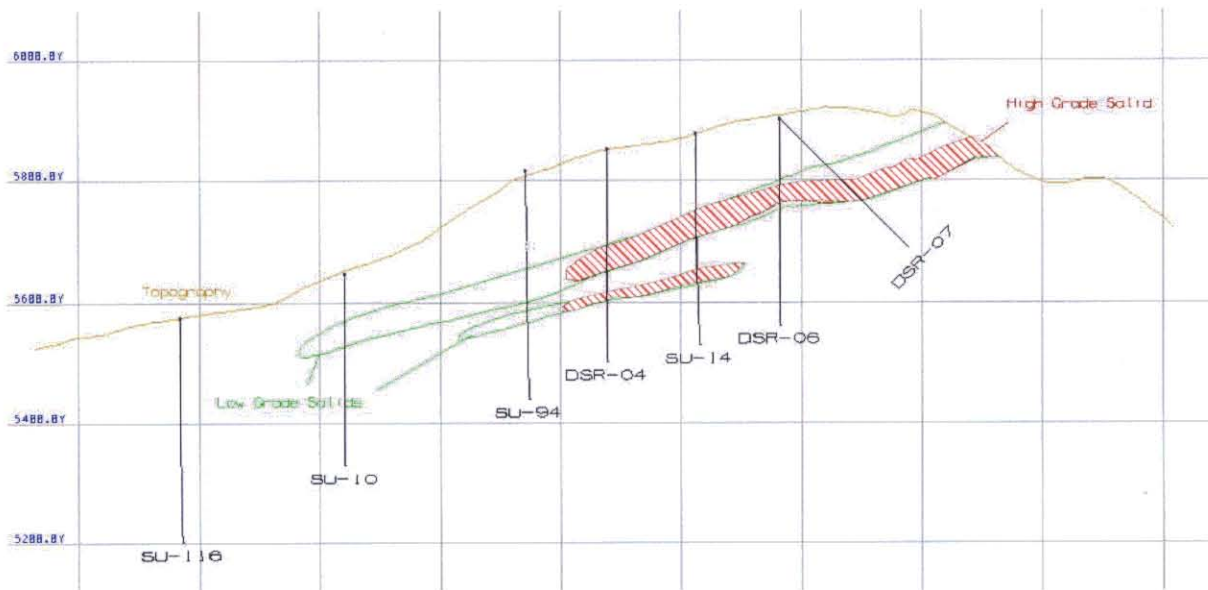
Regional metamorphism throughout the Takla Group rocks is characterized by zeolite facies. Metamorphic grade increases northeasterly from laumontite subfacies in the upper member through the prehnite-pumpellyite subfacies in the middle and lower members. Green rocks of the middle member, and to a lesser extent of the lower and upper members, are characterized by an unusual abundance of chlorite and epidote. The greatest concentrations of epidote are found in the upper volcanoclastic unit of the middle member. Here, epidote, chlorite, quartz, and calcite are common as fracture-fillings, as well as in open-space and amygdules replacing minerals. Finer-grained sequences are present, composed of 50 per cent epidote. The copper mineralization in this unit is not specifically associated with the greatest epidote concentrations, but is contained within the broad epidote envelope.

There is little or no overburden, with the exception of locally derived talus or felsenmeer over the bedrock in the area of the deposits.

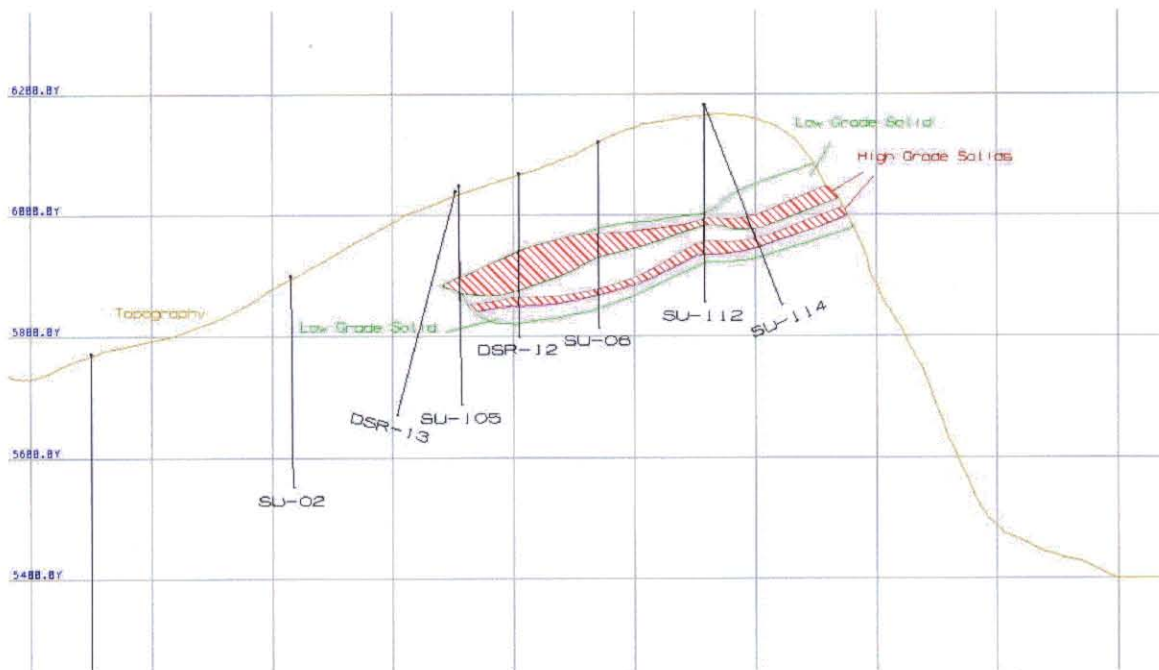
DEPOSIT DESCRIPTION

The Sustut deposit (Minfile # 063) is divided into two zones, the South Zone and the North Zone which are separated by the deeply incised East Cirque (Figure 4). The North Zone covers an area of approximately 500 metres by 700 metres, while the South Zone has been defined over an area of 600 metres by 800 metres.

Copper mineralization occurs in several, stratiform and sub-parallel lenses which are up to 45 metres thick (Figure 5). The mineralized zones occur within the upper volcanoclastic unit of the middle member. Stratigraphy strikes northwest and dips



Drill hole Section 5N (Looking Northwest) *Note: Grid Intervals are 500 ft



Drill hole Section 9N (Looking Northwest) *Note: Grid Intervals are 500 ft



DOUBLESTAR RESOURCES
Sustut Project Assessment Report 2000

TITLE

Drill Hole Sections 5N & 9N

FILENAME:
FIGURE5.cdr

PROJECT NUMBER
00V126

DRAWING NUMBER
5

shallowly to the southwest, and mineralization is conformable with the average bedding attitude. The zone becomes increasingly irregular down dip and steepens slightly more rapidly than bedding (Harper, 1977).

Mineralization is composed of hematite, pyrite, chalcocite, bornite, chalcopyrite and native copper in decreasing order of abundance. All copper mineralization within the stratabound lenses occurs as very fine grains disseminated throughout both matrix and clasts of the volcanoclastic unit. Pyrite is not found with copper mineralization, but occurs peripherally forming a quasi halo in the foot wall and on strike/dip extremities. Increased mineral concentrations occur in the finer grained volcanoclastics. In the southwest area, above the stratabound mineralization, lenses of massive bornite, chalcocite and native copper are found within some epidote, quartz and calcite-filled fractures. Wilton (1978) described vein mineralization both above and below the stratabound lenses.

The North Zone is characterized by a uniform, closely stratabound, continuous zone of copper mineralization. It is 15-28 metres thick, and has little associated pyrite. Copper minerals are essentially chalcocite and lesser native copper.

3. ECONOMIC GEOLOGY

RESOURCES

A mineral inventory of 43.545 M tonnes grading 0.81% Cu (block cutoff grade of 0.40% Cu) was reported by Wrigglesworth (1974) and an open pit resource of 21.075 million tonnes grading 1.11% Cu (cutoff grade of 0.40% Cu) was reported by Harper (1974) for three pits. The Wrigglesworth estimate was a sectional calculation using an overall block cutoff of 0.40% Cu and a "top" cutoff of 0.20% Cu and "bottom" cutoff of 0.40% Cu for selection of the mineralized intervals.

The estimates were based on 17,196 metres of AQ sized core in 139 drill holes. A total of 108 holes hit at least some copper mineralized horizon(s). 118 holes tested the main mineralized horizon and of these, 103 intersected the main lens of copper mineralization. The best intersection in the South Zone was in hole #96 which intersected 35 metres of 2.12% Cu.

In 2000, DSR completed 1,960 metres of drilling (20 holes) in this zone to test the limits and grade continuity of the mineralization. Snowden Mining Industry Consultants were commissioned to prepare a new resource estimate for the Southeast Zone in November 2000. The results of this study are provided below.

Table 3: Sustut Southeast Zone Cumulative Resource Estimates by Cut-off

Cutoff	Measured (70%)			Indicated (26%)			Inferred (4%)			Total		
	Cu (%)	Tonnes (Mt)	Ag (g/t)	Tonnes (Mt)	Cu (%)	Ag (g/t)	Tonnes (Mt)	Cu (%)	Ag (g/t)	Tonnes (Mt)	Cu (%)	Ag (g/t)
0.35	1.63	5.487	5.36	2.538	1.21	4.07	0.333	1.44	4.68	8.358	1.49	4.94
0.50	1.66	5.344	5.46	2.307	1.28	4.30	0.319	1.49	4.80	7.971	1.54	5.10
0.60	1.77	4.866	5.80	1.902	1.44	4.78	0.279	1.62	5.19	7.047	1.67	5.50
0.70	1.94	4.212	6.35	1.458	1.68	5.57	0.267	1.67	5.32	5.937	1.87	6.11
0.80	2.09	3.749	6.82	1.286	1.81	5.97	0.244	1.75	5.55	5.280	2.00	6.55
0.90	2.17	3.514	7.08	1.205	1.87	6.18	0.193	1.99	6.26	4.912	2.10	6.83
1.00	2.23	3.367	7.25	1.149	1.92	6.33	0.189	2.01	6.33	4.704	2.14	6.99
1.50	2.42	2.800	7.87	0.875	2.12	6.99	0.171	2.10	6.60	3.846	2.34	7.61

4. 2002 WORK PROGRAM

INTRODUCTION

Doublestar Resources Ltd. carried out a field exploration program on the Sustut Copper property between July 28 and August 30, 2003. The work program consisted of a preliminary survey to locate the proposed 2002 hole locations in the South-East Zone. The objective of the 2002 program was to carry out in-fill and definition drilling in the South-East Zone, where previous work by Falconbridge Ltd. and Doublestar (2000) had delineated a resource of 5,940,000 tonnes grading 1.87% copper and 6.11 grams per tonne silver in the measured and indicated categories at a cut-off grade of 0.70% copper (Snowden, 2001).

All information gathered on the property up until the 2002 program was in imperial units. It was determined at the start of this program that all subsequent surveys and logging would be undertaken in Metric units.

DIAMOND DRILLING PROGRAM

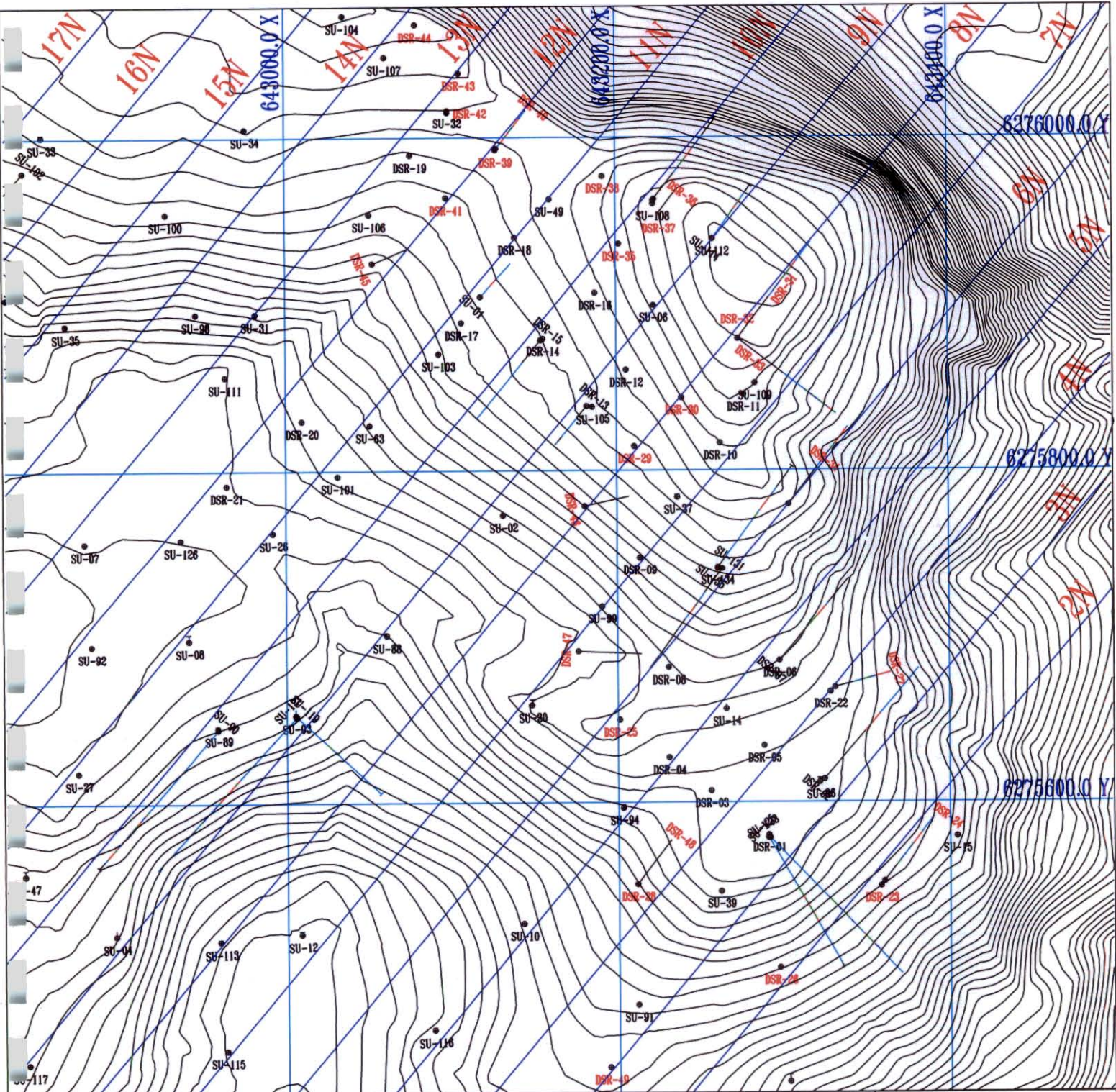
A 3 man Doublestar crew under the supervision of the writer, was supplemented by a 4-5 man drill crew from Britton Brothers based out of Smithers, B.C. Personnel were housed at Northgate Exploration Ltd.'s Kemess Mine, located approximately 65 kilometers north of the Sustut Property. A helicopter (Longranger L1) was chartered from Canadian Helicopters out of Smithers, to provide transportation between the property and the Kemess Mine. This same helicopter was utilized for the drill moves. Britton Brothers provided a Boyles Brothers 2500 drill capable of drilling BDBGM, BQ, NQ, and NQ3 core (41.75mm, 36.40mm, 47.60mm, and 45.00mm diameter, respectively).

All drill hole locations required the construction of cribbed drill pads due to steeply sloping ground, and a lack of overburden. A total of 27 holes, from 21 setups; aggregating 2,290.083 m. were drilled between August 1 and 30, 2002. Core racks (constructed at the Kemess Mine Site) were used for all core storage. All drill pads were cleaned of debris, and lumber used to construct pads was stacked in a central location for

reuse in future programs. Drill hole locations are indicated on the drill hole location plan (Figure 6). Table 4 summarizes the 2002 Diamond Drillhole Program.

Table 4: Sustut 2002 Diamond Drill Program Summary

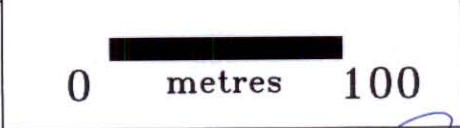
Hole #	Metres	Hole Type	Point Load Tests	Samples Taken	Sperry Sun ("Single Shot") Tests
DSR-23	76.2	BDBGM	0	30	1
DSR-24	76.2	BDBGM	0	31	1
DSR-25	91.5	BDBGM	0	40	1
DSR-26	76.2	BDBGM	0	24	1
DSR-27	60.1	BDBGM	0	22	1
DSR-28	91.46	BDBGM	16	26	1
DSR-29	91.46	BDBGM	14	29	1
DSR-30	97.56	BDBGM/NQ	17	36	1
DSR-31	115	BDBGM	19	33	1
DSR-32	106.71	BDBGM/NQ	18	29	1
DSR-33	112.8	NQ	18	33	1
DSR-34	91.46	NQ	15	25	1
DSR-35	76.22	NQ	12	24	0
DSR-36	74.22	NQ	12	23	0
DSR-37	82.32	NQ	12	27	0
DSR-38	51.83	BDBGM	8	22	0
DSR-39	45.73	BDBGM	7	23	0
DSR-40	45.73	BDBGM	7	24	0
DSR-41	53.35	BDBGM	9	27	0
DSR-42	48.78	BDBGM	8	25	0
DSR-43	45.73	BDBGM	7	24	0
DSR-44	45.73	BDBGM	7	18	0
DSR-45	39.63	NQ3 ORIENTED	12	0	0
DSR-46	54.88	NQ3 ORIENTED	18	0	0
DSR-47	76.23	NQ3 ORIENTED	25	0	0
DSR-48	67.07	NQ3 ORIENTED	22	0	0
DSR-49	396.34	BQ	121	0	0
27 Holes	2290.44		404	595	12



Doublestar
Resources Ltd.

Sustut Copper
Project 2002

SCALE



Drawn By: PDG

May 1, 2003

Figure 6: Drill Hole Location Map

SURVEYS

All but three of the 2002 drillhole setups were surveyed by Northgate Surveyors using the GPS base Station and repeater located at the Kemess Mine Site (an early snow fall obscured the three unsurveyed drill setups, however their location was determined by proximity to surveyed points). To ensure accuracy of location of the 2002 survey, all sites were tied to the 2000 surveyed drill holes and also two stations located during the 2000 survey program (Sustut 1 and 2) and a BC Survey Control Marker. The coordinates garnered from this survey are considered accurate to +/- 0.33 metres.

Diamond Drillholes DSR-23 through DSR-33 were down hole tested with a Sperry Sun "Single Shot" Instrument. The completed downhole tests indicated deviation was not a factor in these competent rock, short drill holes. Hole depths ranged from 40 to 396 meters.

CORE LOGGING PROCEDURES

Core was boxed at the drill sites and transported by helicopter to a staging area on the ORAR, from which it was transported by vehicle to the Kemess Mine. Core was logged for lithology, recovery, and Rock Quality Data (RQD). All core was photographed before being manually split (by use of rock saw). Only those sections identified as mineralized were split (a 2 to 4 meter buffer on each side of the visually identified mineralization was split and sampled). Diamond Drillholes DSR-23 – DSR-44 were sampled for assay, while the NQ oriented holes (DSR-45 – DSR-48) were not sampled, but rather left intact for any further RQD and geotechnical studies that may be required. All core was stored in racks erected at a site within the Kemess Mine.

Logging field notes were entered into the electronic database post-program.

Extensive previous work by Falconbridge, which characterized the simple lithological sequence hosting the Sustut copper mineralization, formed the basis for categorizing rock types. Abbreviations and conventions used by previous workers were maintained for continuity and consistency with previous logs, and are presented below.

RR -red matrix, red clasts
RRG* -as RR with >10% green clasts
GG -grey or green matrix, grey or green clasts
GGR* -as GG with > 10% red clasts
GR -green matrix, dominantly red clasts
RG -red matrix, dominantly green clasts

*The third letter designation is added to the above when secondary content exceeds 10%.

Abbreviations: ca.- core axis, ll - parallel, vfg. - very fine grained, calc. - calcareous, pp - prehnite-pumpellyite, Cc.- chalcocite, Bn.- bornite, Cpy. - chalcopyrite, Py. - pyrite.

Average Fracture Density and Angles are given as: *0.35 spacing (35°)*

Which means: – fractures spaced at an average of 0.35 meters apart, and at an average angle of 35° to the core axis. Vertical fractures are noted where seen, and represent fractures more or less parallel to the core axis.

Host rocks intersected in the Doublestar 2002 drill program on the South-East Zone are essentially volcanic pebble conglomerates with intercalated graded bedding sequences ranging in grain size from fine sand to grit. Feldspathic tuff horizons occur less frequently. Variable amounts of primary magnetite are a common constituent in volcanic clasts, and are occasionally noted in detrital sand. Drill logs are found in Appendix A.

GEOTECHNICAL LOGGING PROCEDURES

All core was point load tested for 2002 holes from DSR-28 through DSR-49 (holes DSR-23 through DSR-27 were not tested due to the point load tester arriving after the program had begun). All in-fill holes (DSR-23 – DSR-44) were point load tested on

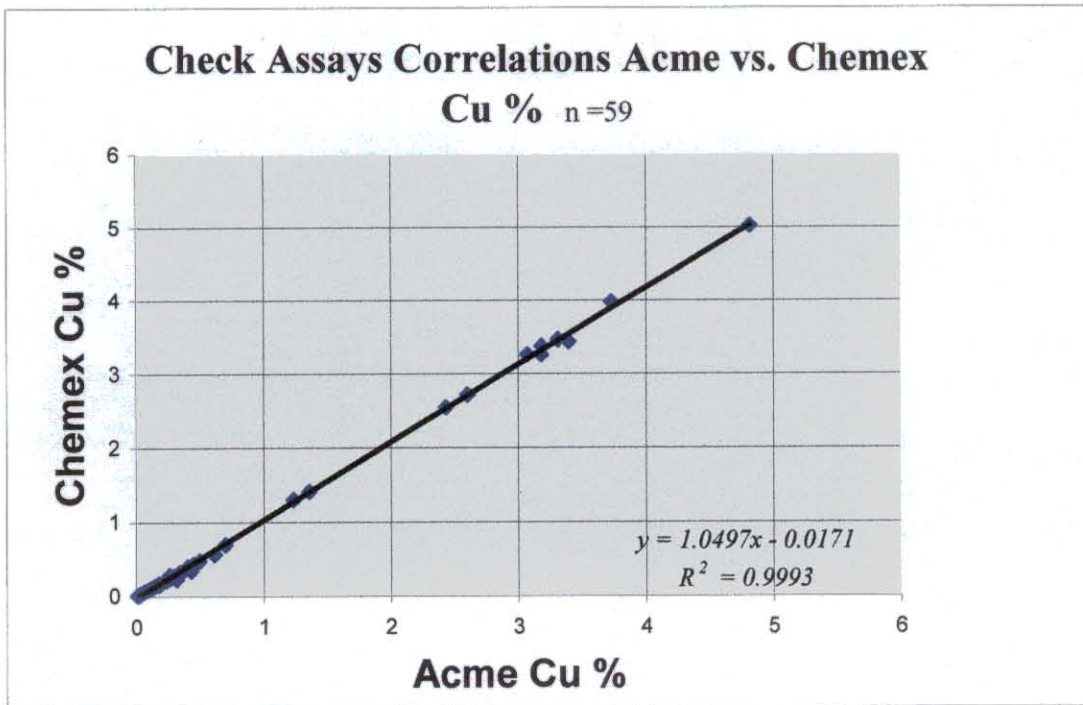
every other run, and all oriented holes (DSR-45 – DSR-48) were point load tested on every run. DSR-49 was point load tested on every run, as the hole was drilled to determine rock characteristics within the proposed ore pass.

Point load testing procedures were as follows: a core sample of equal length to the diameter of the core was selected and slowly (30-45 seconds) placed under increasing pressure until failure. The maximum KPa was noted as well as the depth of sample. A total of 404 point load tests were conducted.

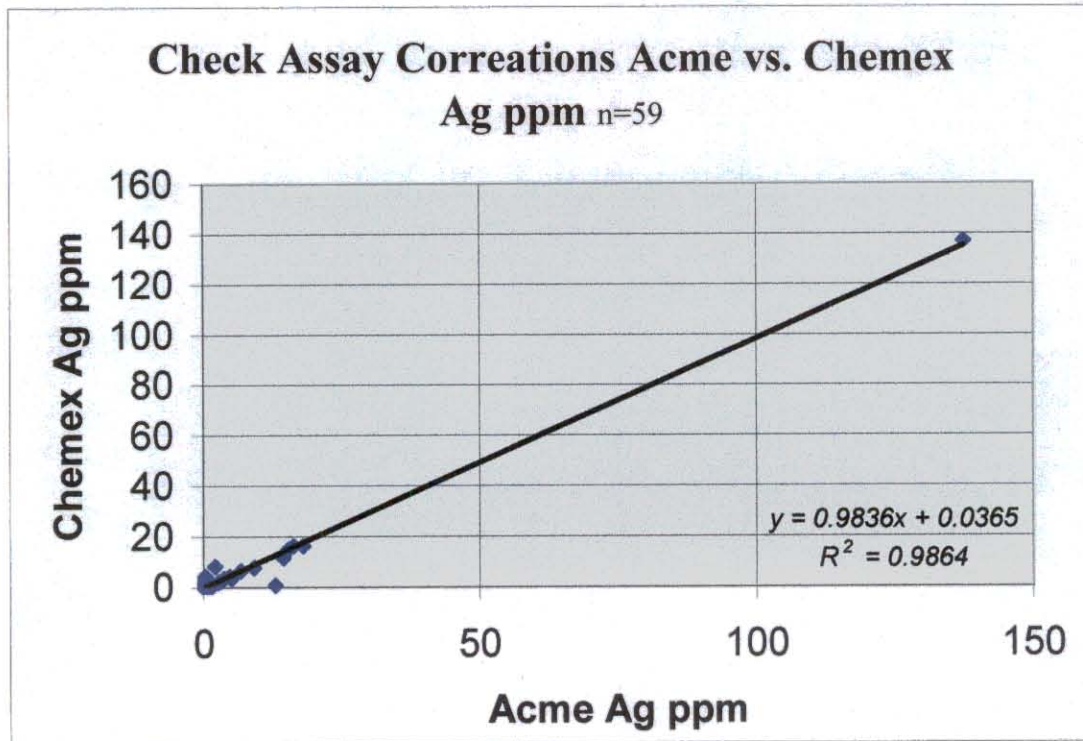
ANALYTICAL PROCEDURES

Core was sampled in 2 metre intervals in general, with a few instances of odd lengths at geological contacts. A total of 595 split core samples were submitted to ALS CHEMEX for sample preparation and analysis. As a check on ALS Chemex results, and sample preparation, 59 coarse rejects of ALS prepared samples (~10%) were submitted to ACME Analytical Labs for AA analysis. Graph 1 is a scatter plot showing the correlation between ALS Chemex AA analyses and Acme AA analyses. Assay and ICP results are provided in Appendix B.

Graph 1: ALS Chemex Assays vs. Acme Labs Copper AA Analyses Correlation



Graph 2: ALS Chemex Assays vs. Acme Labs Silver AA Analyses Correlation



RESULTS

The 2002 in-fill and definition drilling program proved continuity of the mineralized horizons in the South-East Zone between existing drill holes that were spaced at approximately 45 meter intervals. In addition, the extent of the high grade mineralization, indicated in previous work, was further defined giving increased confidence in the economic potential of the zone. Drill hole locations are shown on Figure 6.

Significant intersections from the 2002 drill program are listed below:

Table 5: Compiled Results from 2002 Diamond Drill Program

Hole #	Orientation	Interval (metres)	Thickness (metres)	% Cu	gm. Ag
DSR-23	-90	29.6-57.6	28	0.71	14.86
DSR-24	-50	42.3-58.3	16	2.23	3.58
DSR-25	-90	49.2-63.2	14	1.29	2.94
		75.2-85.2	10	1.86	1.92
DSR-26	-90	40.1-54.1	14	1.18	1.90
DSR-27	-55	21.35-60.1	38.75	1.98	4.27
DSR-28	-90	42.9-66.9	24	0.40	0.78
DSR-29	-90	48.38-57.58	9.2	2.97	13.80
DSR-30	-90	52.74-90.74	38	1.99	4.13
DSR-31	-50	102.25-114.25	12	1.52	0.83
DSR-32	-90	83.83-95.83	12	1.03	2.25
DSR-33	-50	66.38-90.38	24	1.64	3.90
DSR-34	-50	56.03-88.83	32.8	1.64	3.25
DSR-35	-90	38.1-72.1	34	1.76	1.50
DSR-36	-50	46.43-60.43	14	2.04	6.33
DSR-37	-90	40.49-66.49	26	1.62	4.56
DSR-38	-90	23.42-45.42	22	1.41	3.27
DSR-39	-90	5.05-35.05	30	0.69	2.22
DSR-40	-50	7.05-35.05	28	1.51	3.94
DSR-41	-90	14.1-22.1	8	0.80	1.70
DSR-42	-90	7.05-39.05	32	2.34	5.77
DSR-43	-90	4.95-32.95	28	1.90	6.22
DSR-44	-90	5.05-17.05	12	1.17	2.87
DSR-45	-55	No Samples Taken, Geotechnical Hole			
DSR-46	-60	No Samples Taken, Geotechnical Hole			

DSR-47	-60	No Samples Taken, Geotechnical Hole
DSR-48	-60	No Samples Taken, Geotechnical Hole
DSR-49	-90	No Samples Taken, Geotechnical Hole

CONCLUSIONS

Diamond drilling results obtained in the South-East Zone have substantially improved the confidence of grade continuity between holes, and have further defined the limits of mineralization on the south-western margin of the South-East Zone. Chalcocite, bornite, chalcopyrite, native copper mineralization is hosted by pebble conglomerates of basalt to andesite composition, interbedded with finer grained clastics exhibiting graded bedding. Copper sulphides occur primarily in the matrix and are intimately intergrown with epidote, prehnite, carbonate, quartz and chlorite.

Dated: May 13, 2003

Paul D. Gray, B.Sc.



LIST OF REFERENCES

- Church, B. N.** Geology of the Sustut Area, Geology, Exploration and Mining in British Columbia, p 411-432.
- Harper, G.** Geology of the Sustut Copper Deposit in B.C., CIM Bulletin, January, 1977.
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- SNOWDEN** **Blower, S.** Sustut Project - Southeast Zone Resource Estimate, Snowden Mining Industry Consultants, December, 2000.
- Wilton, D.** A Genetic Model for the Sustut Copper Deposit, North-Central British Columbia, Masters Thesis U.B.C. August 1978. 196 pages plus appendices.
- Wrigglesworth, L.** Sustut Mineral Inventory; Falconbridge Nickel Mines Limited, Inter-Office Memorandum April 4, 1974.

STATEMENT OF QUALIFICATIONS

I, Paul D. Gray, certify the following:

- That I am an employee of Doublestar Resources Ltd., with offices at Suite 305, 1549 Marine Drive, West Vancouver, British Columbia, V7V 1H9.
- That I graduated from Dalhousie University with the degree of Bachelor of Science in Earth Sciences (1996).
- That I have practised my profession continuously since graduation.
- That work described herein was carried out under my field supervision.

Paul D. Gray, B.Sc.

May 13, 2003

A handwritten signature in cursive script that reads "Paul D. Gray". The signature is written in black ink and is positioned above a long, thin horizontal line that extends across the width of the signature.

SUSTUT COPPER PROJECT STATEMENT OF EXPENDITURES

EXPENSES APPLIED ARE ONLY TAKEN FROM JULY 28 – AUGUST 30, 2000

Salaries:

P. Gray	34 days @ 300/day	\$10,200.00
S. Wegener	34 days @ 175/day	\$5,950.00
R. Ney	34 days @ 175/day	\$5,950.00
B. Deiter	28 days @ 350/day	\$9,800.00

Total Salaries **\$31,900.00**

Helicopter (Long Ranger)
119.8 hours @ 955/hr. **\$114,409.00**

Diamond Drilling (2,290 metres BQ/BDGBM/NQ/BQ3) @ \$59.14/m
\$135,430.60

Analytical (ALS Chemex, ACME Laboratories – 654 samples)
\$13,444.12

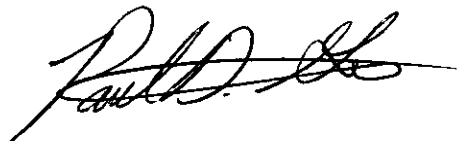
Travel/Camp Costs (Room/Board, Gas, Hotels, Sat Phone Rental Etc.)
\$3,358.69

Equipment Rental
1 Toyota 4X4 Trucks 34 days @ 75/day **\$2,550.00**
1 Sperry Sun, Down Hole Instrument 1 month **\$1,694.52**

Sample Shipping Kemess – Vancouver **\$606.89**

Expenses (Materials: Diamond Saw Blades, Lumber, Shovels, Field Tape)
\$3,125.43

TOTAL COSTS **\$ 306,519.25**



APPENDIX - A

DRILL LOGS

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT				Hole No.: DSR-23			
Inclination: -90°		Azimuth:		Total Depth: 76.2 m.		Logged By: Paul D. Gray	
Northing: 48846.75		Easting: 51171.717				Contractor: Britton Bros.	
Collar Elev. (Ft): 5718.102		Core Size: BGM				Date(s) Drilled: August 1-2, 2002	

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0.06		Casing						
0.06-4.7	20	RRG > 10% green clasts. Matrix supported. Minor Calcite surrounding clasts & limited calcite clasts (2%). Clasts dominantly mm - 1 cm scale. Closed texture. Epidote alteration pervasive late in section. Fine grained sections 4.3 - 4.5. Minor large (5cm) dark clasts with epidote X'ls (mm) within. Core slightly magnetic. No sulphide mineralization noted.	16651	19.6-21.6	0.331	0.8		
	100		16652	21.6-23.6	0.276	0.7		
			16653	23.6-25.6	0.219	8.2		
4.7-14.0	100	GR - 20% Red clasts (mm-5 cm) scale. Green matrix supported. Epidote alteration pervasive. Fine grained 6-6.06. Minor calcite content. Core slightly magnetic. Poikiolytic clasts (all sizes). Fractured and angular clasts (agglomerate). Very fine grained clasts 7.9 - 8.1. Mafic clasts commonly contain Epidote X'ls. 8.7-9.5 fine grained clasts, angular. 20% Calcite. Epidote fracture filled (2-3 mm wide) @ 11.7. Tuff horizons fine grained and epidote flooded/altered. No sulphide mineralization noted.	16654	25.6-27.6	0.322	4.6		
			16655	27.6-29.6	0.18	2.4		
			16656	29.6-31.6	0.31	3.7		
14.0-20.1	98	RR - Fine grained matrix (red) Matrix supported. Angular cm scale clasts. Epidote-Calcite veinlets throughout (mm - cm scale) - X-cutting. 15.5-16 well fractured. 15.2-16.5 Epidote flooded. Large 10 cm + clasts (red). Core slightly magnetic. Epidote flooding 19-20.1. No sulphide mineralization.	16657	31.6-33.6	0.398	51.7		
			16658	33.6-35.6	0.45	27.5		
			16659	35.6-37.6	0.304	10.3		
20.1-23	100	GR- Native Copper noted. Very fine grained and pervasive in small zones. Noted on Calcite veinlets but also within matrix & clasts. Epidote flooding and alteration throughout. Native Cu comes and goes, concentrated on Red red zones. Epidote-calcite veining mm scale. Matrix supported. Magnetic core - slightly. Finely disseminated grains of N.C., perhaps isolated rare F.G. CC - disseminated. Expect elevated Cu grades.	16660	37.6-39.6	0.345	4.9		
			16661	39.6-41.6	0.242	3.3		
			16662	41.6-43.6	0.395	13.5		
23-34	99	GGR- Red clasts >10% Red rims to green clasts. Matrix supported. 25 -27 V.F.G. green matrix no clasts. 27 - 27.4 N.C. zone (Red). Red clast or RR zone. 27.4 - 28.2 GG f.g. 28.2 - 28.4 N.C. 28.4 - 28.6 GR matrix, 29.5 end GGR with larger clasts (cm -mm). Malacahite @ 34 N.C. @ 32.5. Expect elevated but still low Cu grades (0.1-0.2% Cu).	16663	43.6-45.6	0.461	36.5		
			16664	45.6-47.6	0.45	16		
			16665	47.6-49.6	0.501	5.1		
34-36.4	100	GGR - ~ 20% Red clasts. Matrix supported. Epidote pervasive. Clasts from mm - 10cm scale. Calcite throughout matrix. Core slightly magnetic. Poorly sorted clasts sizes together. Angular and fractured. clasts. Epidote veinlets	16666	49.6-51.6	0.626	1.6		
			16667	51.6-53.6	1.36	2.9		
			16668	53.6-55.6	0.84	2.6		
36.4-52	100	GGR - 10% red clasts. Matrix supported. F.G. matrix and clasts. Native Cu. Within RR zones. ~10 cm wide max., but not exclusively disseminated within these zones, within matrix as well (less). 37.3 - 38 Epidote flooded, F.G matrix. 38 - 40 GGR as above. Finely Disseminated CC grains occasional.	16669	55.6-57.6	0.638	28.7		
			16671	57.6-59.6	0.246	6.2		
			16672	59.6-61.6	0.012	4.1		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
52-76.2	100	GG -> 10% Red clasts. F.G. Epidote Flooded (No Magnetite). - 52 -55.4 GG slightly magnetic. Matrix supported. Calcite throughout matrix and as clasts. 58.5 and on f.g. disseminated py (cpy?) noted. Minorly magnetic. Increasing Sulphides with Calcite. 59.35- 60.2 f.g. matrix with f.g. disseminations cpy + calcite finely disseminated throughout matrix. 60.2-64 cm scale clasts fine disseminations of cpy limited veining mm calcite clasts. 64-66 increased calcite veining cc finely disseminated + cpy as small mm scale clasts. Fine laminations @ 64.4 -64.5 65-66.5 Calcite veining. Ultra finely disseminated cpy continues throughout zone. 68.4 - 68.6 qtz carb veining. Increased Cpy content & size. Disseminated mm sized grains. Qtz-carb vein +- Epidote 4 cm wide. Moderately magnetic. Calcite veining 71.4 - 72.4 including 2 cm wide vein at 72.25. Elevated Cu grades expected.	16673	61.6-63.6	0.012	12.8		
			16674	63.6-65.6	0.012	22		
			16675	65.6-67.6	0.01	11.3		
			16676	67.6-69.6	0.563	6		
			16677	69.6-71.6	0.144	3.3		
			16678	71.6-73.6	0.016	2.3		
			16679	73.6-75.6	0.013	1.9		
			16680	75.6-76.2	0.013	32.2		
		Notes:						
		Increased Silicification downhole						
		Core is agglomerate - various sized clasts of different volcanic origin.						
		Expect low grade hole except 60 - 69 m. Not High grade but ~ 0.5 % Cu						
		Native Copper Interesting - close to top of hole (near surface)						
		For all the N.C. only one small malachite vein noted						
		Fine grained mineralization - split hole to determine Mineralization						
		CC minor						
		No Bn noted						
		Fantastic recovery and good drilling						
		Magnetite disseminated throughout, albeit not visible usually.						

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT				Hole No.: DSR-24			
Inclination: -50°		Azimuth: 040		Total Depth: 76.2 m		Logged By: Paul D. Gray	
Northing: 48855.22		Easting: 51178.732				Contractor: Britton Bros.	
Collar Elev. (Ft): 5720.802		Core Size: BGM				Date(s) Drilled: August 3-4, 2002	
Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)	
0-0.6		Casing					
0.6-7.2	90	RRG - > 10% green clasts. Matrix supported. Weak Calcification of matrix. Core weakly magnetic. Clasts vary in size, mostly around the mm - 1 cm scale. Closed Texture. Epidote X'ls & epidote alteration throughout. No sulphide mineralization noted.					
7.2-18.0	95	GGR - > 10% red clasts. Matrix supported. Weakly calcified matrix. Epidotization (alteration) of core. Clasts mm - 1 cm scale. No sulphide mineralization noted. Weakly magnetic core. Minor calcite veinlets. Agglomerate. Some reddened zones @ 13.2 - 18.0. Epidote X'ls pervasive esp. within mafic clasts. Well fractured 13.8 - 14.8. Epidote and calcite veining increases @ 15.5 - 18.0.					
18.0-21.0	93	GGR - As above with increasing red clasts. Epidote/calcite veinlets (mm scale) common. Closed texture. Cm scale larger clasts. Weakly magnetic.	16681	18.3-20.3	0.392	21.7	
			16682	20.3-22.3	0.596	22.8	
			16683	22.3-24.3	0.557	9.6	
21.0-25	98	GGR - As above. Epidote flooded. Native Copper @ 24.0 associated with epidote/calcite? Smaller mm scale angular clasts. Malachite staining @ 22.3 assoc. with calcite veins. 20.6 N.C. Finely disseminated magnetite (or CC?) with veinlets of Cal-Epi at 18.3.	16684	24.3-26.3	0.242	5.5	
			16685	26.3-28.3	0.231	4.2	
			16686	28.3-30.3	0.145	8.6	
25-30	100	GGR - As above with a lack of Cu indications. Epidote flooding and alteration concentrated on f.g. tuff horizons. Epidote and calcite veins throughout. Angular clasts of varying sizes (mm - cm) dominant type. No mineralization noted.	16687	30.3-32.3	0.291	1.3	
			16688	32.3-34.3	0.179	0.8	
			16689	34.3-36.3	0.199	0.8	
30-31.2	100	GGR - As above, but grungy & broken with extensive calcite veinlets. Slickensides on veinlets - well broken & brown-gray. No mineralization noted.	16691	36.3-38.3	0.232	0.8	
			16692	38.3-40.3	0.395	0.9	
			16693	40.3-42.3	0.262	0.6	
31.2-42	100	GGR - as Above, with > 10% Red Clasts. F.G. closed texture, matrix supported. Slightly magnetic. 34 - 34.5 Tuff section. 37.6 - 38.5 epidote flooded tuff horizon. F.G. specs of magnetite (cc?) disseminated within matrix. Limited calcite veining	16694	42.3-44.3	0.713	1	
			16695	44.3-46.3	1.31	2.7	
			16696	46.3-48.3	2.76	3.8	
42-50.5	100	GGR - As Above, with increasing hematite within matrix. N.C. & CC disseminations within clasts and matrix. Increase in Calcite (Large 3 cm wide) calcite - epidote healed fracture @ 45.5. CC disseminated throughout as F.G. specs. Fractures are malachite stained @ 46.3 with thin hematite veinlets within, and 50.2 / 51.8 / 50.3. Mineralized zones non magnetic, otherwise magnetic. Expect High Grade over interval.	16697	48.3-50.3	3.98	4.5	
			16698	50.3-52.3	4.8	6.9	
			16699	52.3-54.3	2.06	4.5	

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
50.5-54.9	99	GGR - Relic Epidote flooded (poss. Tuff horizon). F.g. with small mm scale clasts. CC fine disseminations dominate mineralization (V.F.G. pervasive within matrix and clasts), associated with Malachite stained calcite veinlets /veins (chiefly veinlets). Some veins up to 2 mm wide (all directions; none preferred). Epidote flooded and altered from 48.8 - 54.9. At 53.2 a high grade epidote zone with a lack of calcite (bleached out?). 53.6	16700	54.3-56.3	1.8	4.5		
			16701	56.3-58.3	0.433	0.7		
			16702	58.3-60.3	0.015	<0.5		
54.9-65.5	98	GG - No red clasts. CC finely disseminated as specs throughout matrix and clasts. Less epidote than above and coarser grained. 56.4 mal staining heavy for 0.4 either side. CPY for 0.3 metres concentrated 56.4. mm sized grains of CPY. Sharp change back to disseminated f.g. cc - finer grained and less dominant than before. Increasing py from then on, down interval. Py @ 63-65.	16703	60.3-62.3	0.013	<0.5		
			16704	62.3-64.3	0.014	<0.5		
			16705	64.3-66.3	0.01	<0.5		
65.5-68.5	96	GG - with soily brown alteration. Heavy calcite veining, with little effervescence though. Grungy, openish texture. Possibly limited Py, with no other sulphides noted.	16706	66.3-68.3	0.011	<0.5		
			16707	68.3-70.3	0.012	<0.5		
			16708	70.3-72.3	0.014	<0.5		
68.5-76.2	100	GG - Few red clasts. Closed texture. Slightly magnetic. Py noted as fine disseminations throughout (V.F.G.). Epidote X'ls pervasive esp. within clasts. Clasts nominal mm-cm scale sized. Rounded to sub-angular. Limited calcite within matrix & clasts. Py grains infrequent but there through E.O.H. CPY??? Grungy vein (2 cm wide) @ 74.8. Calcite veining limited.	16709	72.3-74.3	0.015	<0.5		
			16711	74.3-76.2	0.013	<0.5		
		E.O.H.						
		NOTES: Native Copper near surface cliff Proximal Sudden flooding of CC within epidote and previous zone. Two small lenses of CPY then Py for duration of hole ---Zoned mineralization Grungy zone via Surface Proximity? Epidote flooding related mineralization? Good high grade hole est. 1-2 % via CC f.g. disseminations - heft increases Malachite staining of fractures & veins (both) within CC zone Calcite dominant at top of hole - less so down hole Grungy Zone peculiar Sampled from before 1st noted mineralization to E.OH. Non-magnetic nature of ore zone - flushed out magnetite to HW and FW Agglomerate - reworked volcanics - less tuff than other holes.						

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT

Hole No.: DSR-25

Inclination: -90°

Azimuth:

Total Depth: 91.5 m

Logged By: Paul D. Gray

Northing: 49198.56

Easting: 50670.19

Contractor: Britton Bros.

Collar Elev. (Ft): 5888.375

Core Size: BGM

Date(s) Drilled: 4-Aug-02

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-2.44		Casing						
2.44-21	90	RR – Epidote flooded matrix. Red clasts dominate. Ground core 2.4 – 3. well fractured. Calcite throughout. Clasts supported. Clasts size = 1 – 4 cm. Red with minor green. Epidote throughout matrix. Clast supported, agglomerate. Core slightly magnetic. 11.2 – 12.2 disseminated cpy into massive CPY-qtz-calcite-mal-cc-bn vein. 0.5 m wide. Disseminated last 0.2 m on each side. Otherwise barren host rock. Possibly a feeder vein /	16712	8.4-10.4	0.012	<0.5		
			16713	10.4-12.4	3.83	2.8		
			16714	12.4-14.4	0.018	<0.5		
21-25	99	GGR – Pebble Conglomerate. Clasts supported. Fine mm scale clasts > 10% Red Clasts. 21.2-21.45 F.G. epidote flooded tuff. Some large (3 cm) angular clasts within conglomerate. F.G. epidote tuffs @ 23.3 – 23.4, 24.6-24.75. Calcite throughout matrix. & as small veinlets. No mineralization noted.	16715	14.4-16.4	0.023	<0.5		
			16716	16.4-18.4	0.005	<0.5		
			16717	25.2-27.2	0.017	<0.5		
25-37	100	GGR – As Above. Matrix supported. More agglomerate looking though. Calcite veining prevalent. Less calcite in core matrix. Larger more angular clasts (mafic) > 10% red clasts. Epidote X'ls pervasive. Some large 10 cm clasts. Specs of disseminated Py noted (V.F.G.) increasing abundance with calcite and epidote veins. Epidote flooded. Small tuff horizons @ 25.5, 27.1, 27.3 – 27.5, 30.0 – 30.1. Increasing sulphides down interval. Bn?-cc- finely disseminated. Calcite veining @ 28.3 – 28.7. 33 2 mm wide calcite vein. 0.4 wide clast @ 32.5 – 32.9. 32- 32.4 increases calcification of matrix. Sulphides becoming more evident down interval. Fine grained disseminated Py. Expect low grade.	16718	27.2-29.2	0.024	<0.5		
			16719	29.2-31.2	0.017	<0.5		
			16720	31.2-33.2	0.014	<0.5		
37-45	100	GGR – Matrix supported > 10% Red clasts. Angular – agglomerate type clasts. Closed texture. Calcite dominant early in interval (within matrix & rimming clasts), but fades away towards end. Tuffs @ 39.5-39.8 CC&Py disseminated specs sparse but present. Fractures of calcite & limonite. Hematite throughout matrix. Magnetic core. Sulphide mineralization increasing down interval. Calcite veinlets rare. Epidote X'ls throughout.	16721	33.2-35.2	0.014	<0.5		
			16722	35.2-37.2	0.072	<0.5		
			16723	37.2-39.2	0.111	0.5		
45-54	98	GGR – As Above. Hematite more pervasive, on all fractures & intergrown with clasts. Hematite healed veinlets common majors at 50, and 53.5. Sulphide disseminations increasing (cc+bn?). Core heavier than previously, Mal on fractures @ 50.8 (calcite vein), 50.2.	16724	39.2-41.2	0.01	<0.5		
			16725	41.2-43.2	0.012	<0.5		
			16726	43.2-45.2	0.011	<0.5		
54-60	96	GGR – As above. Increased hematite. Mal staining (subtle) on all fractures. 54.35, 55.3, 57.9, 58.1-58.3. Calcite associated with mal. Disseminated cc? (spec hematite?) throughout, V.F.G. Cross cutting calcite veinlets (some with mal) @ 57.6, 57.7, 58.2. Larger more angular clasts than above.	16727	45.2-47.2	0.01	<0.5		
			16728	47.2-49.2	0.16	0.8		
			16729	49.2-51.2	0.912	2.2		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
60-70.5	95	GGR - > 10% Red clasts. Redened look with pervasive hematite. V.F.G. cc disseminated throughout. Calcite within matrix & associated small clasts. Clasts angular to subrounded. Max clasts 5 cm. Avg ~ 1 cm. Hematite and limonite on fractures. F.G. talcy like hematite with calcite veinlets. Calcite veinlets evident. V.F.G. Py disseminated (possibly CPY) concentrated on clast boundaries. Epidote flooded, closed texture, matrix supported. Strong epi-cal vein (2cm) @ 65.4 - 65.6. CC + Bn on Fracture @ 65.7.	16731	51.2-53.2	1.22	2.7		
			16732	53.2-55.2	0.953	1.5		
			16733	55.2-57.2	2	3.3		
70.5-78	99	GGR - As above. Calcite vein/fracture @ 70.3 - 70.6, with no Mal. Py noted disseminated. Higher % red clasts than above. Angular (1cm) clasts. Hematite + rare disseminated CC+Bn noted. F.G. intervals esp. Epidote flooded.	16734	57.2-59.2	2.62	5.9		
			16735	59.2-61.2	0.678	2.9		
			16736	61.2-63.2	0.62	2.1		
78-82	98	GGR- As above. Epidote flooded (esp. F.G. sections). Disseminated CC ubiquitous (as V.F.G. specs). CC related to epidote flooding. Possibly minor Bn disseminations. Likely cc. Significant malachite staining on calcite healed fractures @ 80.2 - 80.4. CC dominant in surrounding core. HG section @ 78 - 82. F.G. tuff style.	16737	63.2-65.2	0.183	0.8		
			16738	65.2-67.2	0.194	<0.5		
			16739	67.2-69.2	0.142	0.7		
82-85.2	100	GGR - As above. Epidote flooded. Specs (F.G.) of mal on core, esp. 82.3 - 83. HG continues through 83. Then into less and less disseminated CC. Still F.G. epidote flooded. Hematite still pervasive. Calcite within Matrix. Matrix supported, closed texture. Weakly magnetic.	16740	69.2-71.2	0.207	0.5		
			16741	71.2-73.2	0.375	0.7		
			16742	73.2-75.2	0.266	0.6		
85.2-91.5	99	GGR - As above, with less epidote flooding. Epidote throughout however. Large Cm scale angular clasts. Py noted late in interval. Calcite veining around, but not abundant. Epidote X's return. Hematite still with fractures. Rare disseminated cc. Clast supported closed texture by end of hole	16743	75.2-77.2	0.311	0.8		
			16744	77.2-79.2	3.47	4.3		
			16745	79.2-81.2	4.51	3.5		
			16746	81.2-83.2	0.95	1		
			16747	83.2-85.2	0.083	<0.5		
			16748	85.2-87.2	0.029	<0.5		
		NOTES: Curious feeder of massive CPY @ start - small halo around it of min. Mineralization difficult to see - v.f.g. CC possibly Bn F.g as well (possibly spec hematite)- use Mal as sign Sampled almost entire hole for clarification Epidote associations with the mineralization - magnetite removed - chemical envelope. Much Malachite throughout hole, with hematite associations - red pervasive within core - hematite disseminated? Py underlies the main mineralized zone. Small Py halo pre-mineralization too. Pebble Conglomerate - to - Agglomerate by end Expect 2 distinct HG zones (Upper and lower)	16749	87.2-89.2	0.021	<0.5		
			19001	89.2-91.2	0.031	<0.5		

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT				Hole No.: DSR-26			
Inclination: -90°		Azimuth:		Total Depth: 76.2 m		Logged By: Paul D. Gray	
Northing: 48695.43		Easting: 50964.48				Contractor: Britton Bros.	
Collar Elev. (Ft): 5702.262		Core Size: BGM				Date(s) Drilled: 5-Aug-02	
Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)	
0-1.82		Casing					
1.82-9.15	90	GGR - >10% Red Clasts. Clast size mm - cm. Angular & broken (agglomerate). Limited Calcite within matrix and clasts. Epidote flooded. Matrix supported. Closed texture. Core Slightly magnetic. Some large (limited) 10 cm + clasts-mafics. Epidote X'ls ubiquitous. Small hematite zone (rims of clasts) & veinlets (small - no real veining). No visible sulphide mineralization.					
9.15-12.2	96	GGR - >20% Red Clasts. More of a pebbly conglomerate than above. Mm - 1 cm sized clasts. Clast supported, closed texture. Increasing calcite content. Rare clasts > 1 cm. Epidote within matrix. Epidote veins @ 9.2 - 9.3, 11.75-11.85 (veined and flooded). Hematite vein @ 11.35 & surrounding clasts (rims). No visible sulphide mineralization.					
12.2-21	95	GGR > 20% Red Clasts. Clast supported, angular ~ 1 cm clasts. Closed texture. Epidote flooded matrix. Epidote veining persistent, and hematite veining (rims). F.G. tuff sections (13.4 - 13.6, 14.3 - 14.4, 15.54 - 15.68). Epidote apparent within intervals. Calcite more common, rare veining within matrix & as clasts/rims of clasts. Hematite within matrix = flooded. Epidote X'ls pervasive, esp. within mafic clasts. Core slightly magnetic. No visible sulphide mineralization.					
21-28	98	GGR - As above. Calcite enriched section @ 22.4-23.1 combined with increased hematite. Epidote flooding of matrix more evident than above. Tuff Zones at 21.2 - 21.34, 24.3 - 25.2 - epidote flooded green. Slightly magnetic. Epidote - Calcite vein @ 28. No visible mineralization. RR zone 25.5 - 28.					
28-33.6	99	RR. - matrix supported hematite pervasive. Red clasts dominate. Epidote & calcite veining common. 29.1 cal-epi vein with malachite & native copper. N.C. disseminated. Within matrix and clasts + associated with epidote-calcite veins. Clast rims concentrate N.C. disseminations. ~ 1 cm. Angular to broken. 28.9 speck of N.C. associated with epidote CC? At 33.5 with N.C. N.C. grains up to 1 mm wide & disseminated. Up to 1%. Rare larger grains.	19002	28.1-30.1	0.068	<0.5	
			19003	30.1-32.1	0.403	0.9	
			19004	32.1-34.1	0.374	0.7	
33.6-42.7	96	GGR - as above. Increased calcite veining. N.C. rare, poss. CC disseminated. V.f.g. N.C. early in interval with malachite staining (fractures and veins to 35.). After 35.5 N.C. rare to return again at 36.6, associated with epidote-calcite veins. 36.6 - 38 F.G. tuff interval with N.C. finely disseminated. throughout 1-2% Cu expected. Minor malachite stains plus limonite staining noted at 37.5, 39.5, 40.6 (Mal), Malachite noted at 41.2, 41.7. Hematite ubiquitous. Native Copper again @ end of interval, cc??	19005	34.1-36.1	0.385	<0.5	
			19006	36.1-38.1	0.308	0.7	
			19007	38.1-40.1	0.435	0.6	

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
42.7-50	98	GGR – As above. Increased epidote veinlets. Native copper disseminated throughout ~ 1%, with small sections to 2%. Epidote flooding associated copper, further concentrated in f.g. tuff horizons (43.3-44.5). Epidote veins @ 43.2, 43.5, 44.2, major @ 45.5. At 46-49.5 major epidote flooded zone. CC disseminated within and malachite throughout section as V.F.G. specks. Mal/lim on all fractures. N.C. – 3% @ 45.1-45.3. Massive cc within fracture @ 50. Core weakly to non magnetic.	19008	40.1-42.1	0.715	0.7		
			19009	42.1-44.1	0.887	0.7		
			19010	44.1-46.1	2.48	1.9		
50-55	97	GGR – As above. Epidote flooded. Massive 1 cm blebs of CC on fractures. Mostly CC as f.g. disseminations with clasts and matrix. Mal/lim/Azurite on most fractures. Epidote-calcite veins as fractures. Epidote bleached 50 – 51.8. 51.8 – 55 N.C. returns as fine disseminations. (epidote related N.C.). Calcite within matrix and clasts and veins. Veins at 50.8, 50.6, 50.4, 54.8, 54.7, 54.6, 54.4. Epidote tuff section @ 54 – 54.2. F.g. CC noted within matrix and on fractures. Less mal/lim on fractures than above.	19011	46.1-48.1	1.92	3.9		
			19012	48.1-50.1	1.32	3.1		
			19013	50.1-52.1	0.478	1.6		
55-60	97	GGR – As Above. Epidote flooded. N.C. specs disseminated throughout. CC specs finely disseminated. throughout. Clasts >1 cm dominate. Epidote X's ubiquitous. Calcite within matrix and as are veins. Matrix supported section. Closed texture. Epidote green areas nonmagnetic. GGR zones moderately magnetic. Some large 5 cm clasts – mafics. N.C. strong around 57.8. F.G. tuff zone 58.9 – 59. Large 10 cm clasts within zone.	19014	52.1-54.1	0.445	1.4		
			19015	54.1-56.1	0.19	0.7		
			19016	56.1-58.1	0.272	1.4		
60-65	98	GGR – As above. Epidote flooded matrix. Smaller, more rounded (pebbly clasts). 61.5 evident N.C., large (3mm). 62 – 63.5 epidote flooded and bleached. CC disseminated?? 63.5 – 65 epidote green zone with disseminated cc and minor N.C. within matrix. V.F.G. cc disseminated & anatomizing through matrix and around clasts. 64-65 epidote bleached rubblely zone (80% recovery).	19017	58.1-60.1	0.127	1.2		
			19018	60.1-62.1	0.439	2.3		
			19019	62.1-64.1	0.071	0.7		
65-76.2	96	GGR – As above. Small blebs of N.C. noted (rare). CC ?? finely disseminated. Bleached epidote white green for duration. Calcite throughout matrix. 67-76. Little sulphide mineralization noted. Residual cc f.g. & rare N.C. Hematite contained within matrix. Core slightly magnetic. 70.1 – 76.2 significant epidote flooding. Bleached green/white. Little magnetism. No mineralization noted.	19021	64.1-66.1	0.096	0.7		
			19022	66.1-68.1	0.23	0.8		
			19023	68.1-70.1	0.071	<0.5		
		Notes: N.C. throughout hole – cliff/surface proximity related (lower sections as well) 36-52 high grade zone with much N.C. above and below Finely disseminated. Significant epidotization – to bleaching – associated with N.C. CC fine grained disseminations within high grade section – to large blebs (rare) mostly specs Hematite in early part of hole, and bleached out down hole via epidote flooding. N.C. up to 2.5% over .5 m – impressive Epidote appears to bleach magnetite out And mineralized zones are non-magnetic.	19024	70.1-72.1	0.08	<0.5		
	19025		72.1-76.2	0.037	<0.5			

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT				Hole No.: DSR-27			
Inclination: -55°		Azimuth: 040		Total Depth: 60.1 m		Logged By: Paul D. Gray	
Northing: 49243.18		Easting: 51099.26				Contractor: Britton Bros.	
Collar Elev. (Ft): 5854.451		Core Size: BGM				Date(s) Drilled: 6-Aug-02	
Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)	
0.1-83		Casing					
1.83-3.05	57	Broken rubble - RR to mid section. 0.1 of GGR. Clast supported, epidote flooded. Back to RR, epidote altered, broken and rubbly core. All weakly calcite enriched. Small carbonate vein noted. No visible mineralization. Weakly magnetic.					
3.05-6.5	75	Broken rubble as above to 5.5 (50% recovery). 5.5 and on, highly epidote altered. Calcite vein prevalent. Calcite cement within matrix and as clasts. Clasts broken and angular. Avg. to 1 cm. Large to 5 cm. Cross cutting calcite veins. GGR > 10% red clasts (25%). Pebble conglomerate. 60 % matrix supported. No significant mineralization.					
6.5-8.2	80	GGR - As above. Broken rubble mixed with epidote altered GGR. Calcite veinlets common. Very broken and well fractured rock. Well altered. No mineralization noted.					
8.2-13.5	95	GGR - more strongly calcite enriched. 65% matrix supported. Pebble conglomerate. Clasts rounded and avg. 1.5 cm, with large clasts to 8 cm. Broken and fractured from 8.66 - 8.97, 9.65 - 10.25. Calcite veins 1-2 mm. Epidote bleached zones (+ calcite veining) @ 12.2 - 13.5. Fractures @ 9.7 - 10.3. No mineralization noted.					
13.5-18.3	97	GGR - As above. Increasingly Epidote flooded. Calcite veins common. Most calcite veins parallel to core axis. Esp. 15.0 - 17.0. Cross cutting fractures @ 45° to core axis. Movement on Fractures @ 16.5 healed with calcite and soft friable alteration product from 16.2 - 16.5. Clasts dominantly small (2 - 3 mm). No mineralization noted.					
18.3-19.35	75	Broken rubble and milled from 18.29 - 18.65. 18.65 - 19.35, hematite rims around clasts and within matrix. Clasts avg. ~ 2 cm. Epidote alteration (with hematite) prevalent. Fractures at high angle to core axis (from across to 70°). No mineralization noted.					
19.35-20.4	100	RR - Clast size avg. 1 cm. Agglomerate. Calcite veins throughout. Hematite within matrix. 60% clast supported. Hematite surrounding clasts. Core slightly magnetic. Fractures at high angle to core axis, to 40°. Moderately fractured. No mineralization noted.	19026	19.35-21.35	0.061	<0.5	
			19027	21.35-23.35	0.358	1.1	
			19028	23.35-25.35	0.188	0.6	
20.4-24.5	100	GGR - Epidote altered. F.G. matrix supported (80%) > 10% Red clasts. Avg clast size ~ 1cm. Malachite stains on fractures @ 21.7 - 21.9. Possible CC disseminated within a malachite vein (calc-epidote related). Limonite stained vein @ 23.3 Epidote vein (4mm) @ 23.6. Epidote vein @ 24.1.	19029	25.35-27.35	0.174	0.6	
			19030	27.35-29.35	0.261	0.8	
			19031	29.35-31.35	0.23	0.8	

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
24.5-30.5	100	GGR - ~ 10% red clasts. Matrix supported. Clasts avg. 1 cm, max. to 5 cm. Epidote altered (esp. matrix). Epidote X-ls within clasts. Hematite rims clasts (sparse to frequent). Epidote vein @ 25.0 - 25.1. Calc-epidote vein @ 24.5. Calcite veins throughout. Well fractured 24.6 - 27. Blocky 10 cm spaced fractures 27-30.5. Epidote flooded matrix. Trace cc (possibly specular hematite) with no other mineralization noted. Late in interval V.F.G. CC ?? (Spec - Hematite) noted.	19032	31.35-33.35	0.676	1.2		
			19033	33.35-35.35	0.958	2.2		
			19034	35.35-37.35	0.398	1.3		
30.5-33.5	100	GGR - As above. Increased epidote alteration of matrix and clasts. Blocky 10 Cm fracture density, from across axis to parallel to axis. Avg around 50°. Malachite staining on 90% of fractures. Calcite epidote veins pervasive. V.F.G. - F.G. cc noted as disseminations and massive blebs on calcite/calcite veins. Trace v.f.g. bn on vertical fracture (32.2-32.64). Direct mal-calcite associations to mineralization, esp. with veins. Increased bn+cc+azurite down interval. Core weakly magnetic early Calcite within matrix. Expect ~ 1% Cu over section.	19035	37.35-39.35	0.325	1		
			19036	39.35-41.35	0.231	0.7		
			19037	41.35-43.35	0.236	0.6		
33.5-36.5	90	GGR -As above. First 0.5 m. milled, broken rubble, with malachite staining + limonite. 34 - 36.5 10 cm blocks between fractures which are at low angles to the core axis. ~ 25°. Bn+CC+Az noted increasingly as V.F.G. disseminations. Malachite pervasive within calcite veins, limonite veins more common. Core non-magnetic. Some CC + Bn (1 mm) blebs, but mostly as Fine disseminated. specs within matrix. Epidote altered and flooded section. Calcite ubiquitous within matrix. CC + Bn vein (0.5 cm) @ 35.3 - associated with limonite staining. 36.4 - 36.5, high angle calcite vein sets (80° to core axis).	19038	43.35-45.35	3.66	5.4		
			19039	45.35-47.35	5.02	11.5		
			19041	47.35-49.35	5.13	11.1		
36.5-38.5	70	GGR -As above. High angle calcite veins break up core - easily broken, friable. Malachite stained throughout. Soft and talcy calcite seams add to very broken and highly friable character of core. Heavily fractured. Epidote altered. Limonite staining ubiquitous. Clay-like alteration product within veins and fractures. Fractures at 0.2 m. spacing. Heavy fracture Density.	19042	49.35-51.35	5.37	10.2		
			19043	51.35-53.35	4.99	9.3		
			19044	53.35-55.35	3.42	10.7		
38.5-39.8	100	GGR - Out of fractured zone (above) into competent rock. F.G. agglomerate with angular to rounded clasts avg. 0.5 cm wide. Clast size increasing down interval. Core moderately magnetic. Trace N.C. disseminations. Finely disseminated cc noted.	19045	55.35-57.35	1.97	4.4		
			19046	57.35-59.35	3.73	4.9		
			19047	59.35-60.1	2.51	11.7		
39.8-42.5	100	GGR - As above. More competent rock than above though. Less fractured (0.2 m). Calcite veins and laminations evident. Calcite throughout matrix. Finely disseminated specs of Bn + cc noted. Epidote altered from 40.5 - 40.6 significant epidote veins and alteration. Clast size varies from 5 cm to 2 mm. Epidote /calcite vein @ 40.95 with Bn+cc blebs. Fractures at low angle to core axis (20 - 40°). High angle fractures noted at 41.6 - 41.9 - vertical fractures. Epidote flooding at 41.55 - 41.66						
42.5-46	100	GGR - As above. Epidote altered and flooded. Matrix supported. More rounded clasts, avg. ~ 1 cm. Calcite veins (4 mm+) and veinlets common (0.2 m.) Fractures 0.05 - .01 spacing at low angles to core axis. Vertical fractures 43.75, where mal staining and epidote calcite veins bleach out. Disseminated cc+bn ubiquitous as V.F.Gs. Down interval malachite staining on fractures increase. Hematite rims evident. Limonite plus malachite stains on fractures. Very weakly magnetic core. High grade > 2% expected.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
46-60.1	100	GGR - As above. Epidote bleached. Bn Veins (2 cm) with calcite and epidote associated with fractures. Malachite + limonite staining on all fractures. Fractures dominantly low angle (15-40°). Bn+Cc blebed to disseminated throughout. Bn veinlets abound. Fracs to 0.5 -0.3 spacing 10-60°. Dense at 46 - 46.2. All bleached epidote white-grey. All fractures mal and limonite stained cc ubiquitous. F.G. cc - bn larger. Epidote veinlets pervasive. 3 cm bn bleb at 57. Fracs get more widely spaced and at lower angles towards end. Vertical calcite vein @ 55 - 55.5. CC main mineralizer, over Bn. High grade expected 2-3%.						
		Notes: End of hole (last 2 boxes) transport loss of core ~ approx. 1 metre. Early in hole, blocky rubble - due to proximity to cliff face/surface. Malachite ubiquitous speaks to Cu values throughout hole + surface proximity. Proporlytic alteration all the way through. 40 - 60 m High grade section. ~2-3% Cu expected Interesting lack of N.C. A sulphide dominant hole. No cpy noted (to any appreciable extent) - possibly, small blebs and minor disseminations. Epidote flooded from top to bottom. Again the mineralized zones were non-magnetic - flushed out my mineralizing event. 2 main mineralized zones, 1 early in hole, then again at end of hole.						

Doublestar Resources Ltd.

Core Log Data Sheet

Project:	SUSTUT			Hole No.:	DSR-28		
Inclination:	-90°	Azimuth:		Total Depth:	91.46 m		
Northing:	48871.5	Easting:	50690.15	Logged By:	Paul D. Gray		
Collar Elev. (Ft):	5768.581	Core Size:	BGM	Contractor:	Britton Bros.		
				Date(s) Drilled:	6-Aug-02		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)
0-4.88		Casing				
4.88-8.4	95	RR- Fine Grained RR agglomerate with coarser (clasts) sections @ 2.85-3.85, 5.95-6.29, 8.0-8.4. F.G. laminated tuff layers are matrix supported, weakly magnetic, hematitic rims and within matrix. Calcite within matrix subtly. Epidote bleached zone @ 6.3 - 6.45, 7.9-8.0. Coarse grained intervals, clasts ~ 1cm to 6cm max. 60% matrix supported. Fracs 3.25-3.75. (1 - 0.1) high angle (~70°) @ 5-5.5 - as above with lower 10-40°. No mineralization noted.				
8.4-14.5	100	GGR- Epidote flooded. 70% matrix supported, closed texture, moderately magnetic, limited calcite veins, clasts rounded to subrounded. Pebble conglomerate. Calcite increasing from above within both matrix and clasts. Fracs dense (0.05 meter spaced) at 45-55° @ 11.2-11.6. Calcite-epidote veins @ 10.3 - 10.6. No significant mineralization noted.				
14.5-18.29	100	GGR- Angular clasts (>10%) more like an agglomerate. ~1cm avg. Fine grained with increased calcite veining. Calcite remains subtle in matrix. Calcite veins @ all angles to core, avg. ~45°. Many veinlets associated with fractures. Epidote altered matrix and clasts. Clast (mafic) contain large (1-2 mm) Epidote X's. Core moderately magnetic. Fracs @ 0.1-0.2 intervals from 14.5-18.5, avg. 35° - 1 vertical fracture at 14.6-14.8 and @ 15.54. Large mafic clasts at 17.89, 17.29 (0.6m) Long and competent runs, (3m). Epidote flooded at 14.75-14.90. No visible mineralization.				
18.29-24	100	GGR -> 10% Red Clasts. 60% matrix supported. Pebbly conglomerate (<1cm Avg). Epidote altered matrix. Weak calcite throughout matrix. Epidote flooding increases down interval. 21.64-24.0 low angle fractures on 0.2m intervals (10-40°). Epidote-calcite vein @ 21.94 (each side epidote altered for 0.3 m). high angle fractures associated with vein and altered wall rocks, 0.82 spaced @ 45-60°. Core is moderately magnetic. No visible mineralization. Epidote zones lack magnetite. Hematite rims within matrix. No mineralization noted.				
24-31	100	GGR- As above. Clast avg. ~1.5 cm (max to 3 cm). 24-24.6 heavily epidote flooded and altered (matrix). 24.6-25.75, RR with green clasts and epidotized matrix. Red clasts pervasive. Few fractures, 0.3 spacing of 50° to core. 25.75-26.1 epidote flooded F.g. section. 27.4-27.6, f.g. epidote alteration into RR (hematite pervasive). RR 0.5 to F.g. epidote tuff. Vertical to subvertical fractures @ 29.2 -29.5 + 30.45-30.7. Hematite rims within matrix. Disseminated magnetite as F.G. specs within matrix.				

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
31-37	100	GGR- As above. Higher angle fractures (65°+) all healed with calcite. Sub parallel to axis calcite veinlets evident. Calcite within matrix, but subtle. Vertical fractures at 31.4, 31.5-31.7, 33.23-34.1, 35, 36.6-37.8. Slickensides on vertical fractures (epidote-calc). Fracture related to calcite veinlets. Disseminated magnetite noted throughout matrix. Closed texture. Fractures healed with sooty gray calcite (almost limonitic). Chemical Equilibrium? Higher angle fractures in general. Increasing disseminated magnetite down section.						
37-42	100	GGR - As above. Disseminated magnetite increasing in quantity. Magnetic core. Hematite throughout. Fracs (infrequent) @ high angles to core axis (<45°) avg. 65°. Spaced at 0.4m except 40.78-40.9. Calcite veinlets cross-cut core at low angles - mm spaced. Fracs associated with calcite veins. 0.02 spaced. Epidote veinlet (2mm) at end of interval. Late in section 41-42 GGR with 1 cm angular broken clasts. Agglomerate fractures @ 40° to core axis 0.1 spacing. Disseminated magnetite increases down interval.						
42-49	100	GGR -As above, esp. late interval above. Broken and angular clasts (Agglomerate). 60% matrix supported. Average clast size ~ 1cm, max to 6 cm. On avg. a competent run of great recovery. Vertical fracture @ 45 with calcite healed slickensides (epidote associated). Disseminated magnetite within matrix. Trace N.C. finely disseminated showing up late in interval. Calcite veinlets return @ 44.73-49. Calcite veinlets subparallel to core axis and fracture related. Core moderately magnetic. Limonite staining on fractures. No significant mineralization (except for minor N.C.) noted.	19048	42.9-44.9	0.451	0.7		
			19049	44.9-46.9	0.884	1		
			19050	46.9-48.9	0.406	0.7		
			19051	48.9-50.9	0.491	0.8		
49-55	100	GGR - As above. Disseminated cc first noted. Calcite subtle within matrix. 49-50.28 solid competent run with no fractures. 50.3-50.8, 0.02 spaced, low angle (0-40°) fractures associated with slickensides healed with calcite and epidote. Disseminated magnetite noted, mixed with rare cc+N.C. Zones of increased Bn+Cc+mag+N.C. (50.5) Magnetite disseminated as larger blebs to 0.5 mm. Fracs 52-55 @ mostly low angles (0-20°). Vertical fractures @ 53.9-54.1. Hematite+Calcite slickensides cut across the core axis. Epidote veins @ 54.67 and 55. Core moderately magnetic.	19052	50.9-52.9	0.555	1.3		
			19053	52.9-54.9	0.442	0.8		
			19054	54.9-56.9	0.349	1.4		
55-61	100	GGR -AS above. 10 cm Epidote vein 55-55-1. CC disseminated throughout. Core fractured at 0.1 spacing; from 55-56 low angle (30°). High angle @ 56.1. Calcite veins rare - veinlets more common. Fracs healed with calcite. Epidote veinlets @ 58.6-58.63 and 59.1. Hematite noted throughout matrix. Core magnetic, dominantly caused by disseminated. magnetite.	19055	56.9-58.9	0.189	1.1		
			19056	58.9-60.9	0.134	0.6		
			19057	60.9-62.9	0.242	<0.5		
61-67	100	GGR - > 20 % red clasts. Matrix supported, average clast size ~ 1.5 cm. Angular (large) rounded (small). Epidote altered within matrix. Fracs healed with limonite-calcite-epidote. Epidote invades F.G. tuffs @ 62.3-62.5. Hematite within matrix and rims clasts, also as veinlets. Large calcite vein @ 65.02 (3 cm wide). Malachite stains and specs associated with epidote altered wall rock (or veins). Fracs at high angle to core axis (80°) @ 0.2 spacing, fractures average 45°. Disseminated cc within matrix. Massive cc veinlet within calcite vein.	19058	62.9-64.9	0.238	0.5		
			19059	64.9-66.9	0.427	0.5		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
67-72	100	GGR- As above. Core moderately magnetic. Calcite subtle within matrix. Disseminated cc rare, disseminated magnetite common. Hematite within matrix and rare veinlets. Calcite veinlets at high angles to core axis. Fractures infrequent, average 1-0.5 metre spaced. 71.8-72 epidote flooded within F.G. tuff zone. Average fractures at low angles (20-40°). Minor disseminated cc within matrix. Disseminated magnetite dominant mineralization.	19061	66.9-68.9	0.177	0.9		
			19062	68.9-70.9	0.167	<0.5		
			19063	70.9-72.9	0.329	1		
72-80.7	100	GGR -As above. Epidote flooded. 72-80.7 fractures infrequent, average 0.1 spaced (72-74.5 = 0.4 spaced); (77-77.9 = 0.1 spaced). Average low angle (~20°). Epidote veinlets common. Calcite veinlets associated with epidote at all angles. Disseminated cc within Epidote altered zones (no magnetic). Elsewhere moderately magnetic. Calcite healed fractures. Disseminated cc a minor component. Vertical fractures @ 76.77, and 78. F.G. Tuff (epidote altered) 77-80.7.	19064	72.9-74.9	0.141	<0.5		
			19065	74.9-76.9	0.149	0.7		
			19066	76.9-78.9	0.207	0.9		
80.7-85	100	GGR - As above. F.G. tuff 80.7-82.4. Vertical fracture @ 81.4-81.9. Lim+cal+ep[1 @ 83.1-83.4. Conjugate set of high angle epidote-calcite veins @ 82-82.35. RR from 81.4-82.8. Epidote flooded zone 0.35. Epidote continues to 84.2. RR @ 85. Minor CC within epidote flooded zones (non-magnetic), elsewhere moderately magnetic. Hematite within matrix.	19067	78.9-80.9	0.066	<0.5		
			19068	80.9-82.9	0.017	<0.5		
			19069	82.9-84.9	0.084	<0.5		
85-91.46	100	GGR - with RR Zones intercalated. Oxidation? Hematite? Epidote flooded with minor cc disseminations with epidote zones. Fractures infrequent (0.2 m avg. spaced). At 10-80° (average 40°). Calcite-epidote related and healed. Vertical fractures @ 86-88 as conjugate sets. 90 - 91.4 epidote flooded (non-magnetic). Elsewhere moderately magnetic. Cc minorly disseminated esp. epidote zones. Fracs average 0.1 spaced.	19070	84.9-86.9	0.053	<0.5		
			19071	86.9-88.9	0.06	<0.5		
			19072	88.9-90.9	0.037	<0.5		
			19073	90.9-91.46	0.077	<0.5		
		Notes:						
		Exploration hole - looking for extension of high grade						
		No major mineralization intersected.						
		Good quality rock intersected.						
		Epidote from top to bottom						
		Minor malachite on fractures.						
		Much magnetite within the core - not flooded out by mineralizing event.						
		Sample through bottom to check possible cc disseminations.						

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT	Hole No.: DSR-29
Inclination: -90° Azimuth: Total Depth: 91.46 m	Logged By: Paul D. Gray
Northing: 49737.16 Easting: 50724.304	Contractor: Britton Bros.
Collar Elev. (Ft): 6044.76 Core Size: BGM	Date(s) Drilled: 10-Aug-02

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-3.05		Casing						
3.05-7.40	80	RR- 70% matrix supported pebble conglomerate. Ground rubble core to 3.3. Weak calcite within matrix and rims. Clasts average 1.2 cm. Epidotized (esp. within matrix). Epidote X's noted Hematite rimming clasts and as veinlets within matrix. Weakly magnetic. Limonite on fractures, with calcite and hematite. Fracs average 0.1 (3.05-4.55) 0.2 (4.55-7.40) at low average angle (30°). No significant mineralization noted.						
7.40-9.25	90	RR - Broken and well fractured from 7.4 - 8.0, 65% matrix supported. Closed texture. Clasts average around 1 cm, max to 5cm. Hematite within matrix and rims. Weak calcification of core. Core weakly magnetic. No significant mineralization.						
9.25-14	100	RR- Broken rubble 9.25-9.56. Epidote flooded calcite vein at 10.10 -10.20 at high angle to core (80°). Broken and fractured @ 0.01 intervals (12.71-13.11). Conjugate sets @ high angles (65-85°). Vertical fracture at 13.7-13.85. As above. No significant mineralization.						
14-21.4	100	RR -As above. More epidote flooding of matrix. Clast max 10 cm, avg. 1.5. F.G. tuff horizons @ 14 - 14.1, 15.25-15.39, 18,54-18.64. Moderately calcareous matrix. Magnetite noted within matrix as disseminations. Weakly magnetic core. Calcite forms rims around clasts (esp. large clasts <2cm). Calcite also as clasts in small calcite flooded zones. Hematite rims common. Late in section (19.8 and on) larger clasts <2cm, rock remains matrix supported. Fracs are not common, 0.4-0.6 spaced at dominantly low angles (10-25°). 19.8 a high angle (50°), 20.58-20.7 a high angle limonite fracture (70°). Conjugate epidote-cal-lim fracture at 21.0-21.15, 0.1 spaced (some open texture). 20.9-21.4 vertical fracture. Competent rock. No significant mineralization noted.						
21.4-25	100	RR- As Above. Large clasts continue from above to 22.7, then return to previously smaller clasts. Epidote pervasive throughout matrix. Calcite veinlets visible @ high angle to core. Limonite staining on all fracs+cal+epi. Epidote (open texture) flooded and fractures @ 23.8-24.2. Good competent rock (0.2-0.3 spaced fractures at high 45-65°) @ 23.4-23.5, 22.8-22.9, 21.64-21.74, 22.2-22.4. Weakly to moderately magnetic. Moderate calcification of matrix. Hematite pervasive. Disseminated magnetite throughout matrix. No significant mineralization.						
25-30	100	RRG- As above with increasing green clasts. Epidote flooding more evident. Good competent rock. Fracs infrequent (0.4-0.5 spaced) at low angles to core (avg. 25°). Lack of limonite on fractures. Increasing calcification of matrix and filled zones. Hematite rims common. Small hematite veinlets. Disseminated magnetite as fine specs within the matrix. No significant mineralization noted.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
30-36	100	GGR- 80% matrix supported, closed texture. Calcification of matrix. Moderate to weakly magnetic core. Significant epidotization of matrix and clasts. Fine grained CPY disseminations noted within matrix with increasing abundance down interval. Calcite veinlets at high angles to core more common than above. Calcite filled vugs. CPY rare but present. Fracs infrequent, 0.2 avg spacing at dominantly low angles (30°). Calcite vein/fracture @ 35.8-35.9 (75°) with limonite + epidote. GG from 3336. Trace sulphides (rare cpy). Estimate low grade Cu (0.3%).	19074	36.6-38.6	0.014	<0.5		
			19075	38.6-40.6	0.009	<0.5		
			19076	40.6-42.6	0.012	<0.5		
			19077	42.6-44.6	0.01	<0.5		
36-40	100	GG - As above. Clasts large (2cm - 1 cm Avg). Fine grained sulphides (Cpy) disseminated throughout matrix and as tiny veinlets, also as rare blebs of CPY seen as disseminations. Epidote throughout matrix and within clasts (flooded and altered). Calcification of matrix and calcite veinlets pervasive (as before with zones of vug fillings-healed fractures). Fracs infrequent (avg. 0.2 spaced) avg. angle ~ 30°. 85° calcite healed fracture @ 37.2-37.3. Increasing sulphide content down section. Fine grained disseminated Cpy main mineralizer of interval.	19078	44.6-46.6	0.01	<0.5		
			19079	46.6-48.38	0.009	<0.5		
			19081	48.38-49.58	1.34	1.5		
40-45	100	GG-As Above. 40-41 Open texture, epidote flooded and altered zone. Calcite veins associated with heavily fractured (vertically) and low angle 0.1 spaced. 41-41.4 GG, low angle fractures @ 0.15 spacing (20°). Calcification of matrix. 41-42.18 - same epidote altered open texture as above. 42.18-45 competent rock (1 run), except 30° lim stained fracture @ 43.55-43.88. F.G. disseminated cpy throughout matrix and as stringers (stringlets), as replacements of clasts. F.G. to blebby (mm-cm scale) non-magnetic. No disseminated magnetite noted. Expect Cu grade 0.5-1%.	19082	49.58-51.58	4.3	28.2		
			19083	51.58-53.58	2.05	10.2		
			19084	53.58-55.58	2.32	9.6		
45-52	100	GG- As above. Increasing CPY sulphide content as disseminations. Fracs coated with rosettes of CPY. 48.5 lim coated fractures. Open texture, epidote flooding related fractures and zones @ 45.83-46, 46.3-46.5 (avg angle ~40°), most at low angle. Massive CPY replacement 48.5-49.62. 49.62-52 back to fine grained pervasive CPY mineralization. Vertical fracture (lim+hematite stained) at 49.78-49.88. Grenokite on fractures (rare). Mineralized zones non-magnetic to slightly magnetic. Expect good grade ~1% Cu	19085	55.58-57.58	4.2	14.6		
			19086	57.58-59.58	0.089	<0.5		
			19087	59.58-61.58	0.019	<0.5		
52-58	100	GG- As above. Malachite on Calcite healed fractures @ 52, disseminated CPY gives way to F.G. disseminated CC. Moderate calcification of the matrix. Moderately magnetic core. Fracs infrequent (0.2 average spacing). Limonite on fractures, Malachite at 53.5. CC disseminated throughout. Expect High grade. Possibly Bn with disseminated cc?? CC AS F.G. disseminated to small blebs. Fracs at average 35° (high angle ~ 70° - 52 and 53,5 (malachite associated)). Low angle hematite healed fractures @ 55.7, 55.9, 56.35, (mal associated with all above fractures), 57.6, 57.3, 57.4 (mal). Massive CPY 57.4-57.65. High Grade Zone. Expect >1% Cu.	19088	61.58-63.58	0.011	<0.5		
			19089	63.58-65.58	0.382	0.8		
			19090	65.58-67.58	0.616	2.3		
58-64	100	GG - As above. Well fractured section 58.2-59.25 (0.1 spaced) avg. density, many vertical fractures. Disseminated CC throughout interval. Vertical Fracs at 61.18, 62.2-62.3 (cal with Lim), 62.4-62.6 (calcite veinlet related -1cm; open texture with epidote and limonite), 63.5-63.6 (lim). Otherwise competent rock (0.4 spaced fractures). Moderately magnetic core. Disseminated cc+bn common. Sulphides F.G., disseminated with matrix and clasts (minorly). Expect ~1% Cu.	19091	67.58-69.58	1.57	2.7		
			19092	69.58-71.58	0.362	0.9		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
64-70	100	GG - As Above. Minor Red Clasts. CC dominant mineralization as disseminated F.G. throughout matrix and clasts. Bn subordinate to CC but present. Fracs infrequent (avg. 0.3-0.4 spaced); low-high angle avg. 35-65°. 67.6-67.8 cal-epidote with minor malachite staining. Epidote flooded and altered 67-70. Bn Content high with increased CC. Expect 0.5-1% Cu.	19093	71.58-73.58	0.012	<0.5		
			19094	73.58-75.58	0.011	<0.5		
			19095	75.58-77.58	0.009	<0.5		
70-76	100	GG- As above. Less Bn but consistent CC disseminated throughout. Fracs average 0.25 spaced. High angle fractures at 70.4-70.5 (mal), 72.3-73.5 (lim), 73.05-73.2 (lim+cal), 76.4-76.5 (lim+cal), 75.8-75.9 (cal+lim). Average angle ~ 65°. Low angle fractures rare. F.G. CPY returns indicating out of high grade zone. 74 last gasp of CPY, rare to 76. Estimate 0.3-0.5% Cu.	19096	77.58-79.58	0.01	<0.5		
			19097	79.58-81.58	0.009	<0.5		
			19098	81.58-83.58	0.01	<0.5		
76-85	100	GG-As above. Rare Cpy with no other sulphides noted. Cpy from trace to finely disseminated. Defines low grade zone-Footwall. Fracs 77-79 (0.1 spaced avg. 25°; vertical fracture @ 77.3-77.5). Good competent rock through 85; 0.6 spaced at avg. 60°. Spotty, sparse mineralization, trace Py. Moderately strong calcite interstitially.	19099	83.58-85.58	0.01	<0.5		
			19101	85.58-87.58	0.014	<0.5		
			19102	87.58-88.41	0.009	<0.5		
85-91.46	100	GG - As above. Epidote altered and flooded. 85-87.41 - 87-91.46 - GG with <10% red clasts. Fracs average 0.2 spacing at avg. 50° angle. Vertical fractures at 87.3-87.5 (lim+cal), low angle 89.2. Slickensides with considerable movement signs -clay seam? 89.6 slickensides with cal +lim at 45°. 90.15 45° lim +cal+epidote fracture. Trace Cpy + Py disseminated within matrix.						
		Notes:						
		Drilled to in-fill section formerly undrilled -Success mineralization exists.						
		Agglomerate - matrix supported RR-GG						
		High Grade Zone - Bn+CC+Cpy						
		High Grade 40-70						
		Massive CPY sections						
		Little malachite - no native copper.						
		Excellent central zone hole - Negligible soluble copper						
		Clasts control mineralization (rims) + contain -e.g. replaced mafics with CPY						

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Core Log Data Sheet

Project: SUSTUT			Hole No.: DSR-30		
Inclination: -90°	Azimuth:		Total Depth: 97.56 m		Logged By: Paul D. Gray
Northing: 49828.71	Easting: 50822.125				Contractor: Britton Bros.
Collar Elev. (Ft): 6099.625	Core Size: BGM (0-24.4) NQ (24.4-E.O.H.)				Date(s) Drilled: August 10-11, 2002

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-7.61	70	RR- Bad drilling- Rock crumbly and broken. Open texture weathered pits of calcite (open space (vug) fillings. Weak to moderate calcification of matrix. Calcite veinlets at high angles to core axis. (65-85°). Good drilling from 5.7 - 6.4, where rock is GGR with high angle (70°) fractures at 6.3-6.4. Then core returns to broken rubble. 80° fracture @ 6.7-6.8, epidote coated and slickensided. Core is weak to moderately magnetic. No significant mineralization noted.						
7.61-15	95	GGR - >10 Red clasts. Calcified matrix (rims of clasts). Clasts are angular and broken to sub-rounded. 60% matrix supported. Clasts average 1.5 cm, max to 4 cm. Epidote flooded and altered matrix. Rare, trace CPY disseminations. V.F.G. disseminated magnetite grains. Epidote X's ubiquitous. Hematite within matrix and as rims of clasts. Weakly to moderately magnetic core, with Epidote flooded zones lacking magnetism. Fracs avg. 0.1 spacing (7.61-9.15 - 35°), broken rubble from 8.67 - 9.15, 9.15-15 fractures spaced at 0.3 at avg. 30°. Fracs cal-limonite coated with occasional epidote. No significant mineralization noted.						
15-21	90	GGR- As above. 15-18.29, good competent rock (fractures at 0.3 spacing, avg. 70°). Cal-epidote associated fractures with minor limonite. 18.29-21, bad ground (0.1 spaced fractures), rubble to 18.26. Core weakly magnetic. Calcite weakly within matrix. No significant mineralization noted.						
21-24.4	99	GGR- As above. BQ core to 24.4. 80% matrix supported. Fine grained clasts dominate. High angle, lim-Cal healed fractures at 22.5, 22.6, 22.7, 22.8, 23-23.4. Weakly magnetic. Weak calcite within matrix. Absolutely epidote flooded. No significant mineralization.						
24.4-28.8	96	GG - NQ core. Red clasts minimal. Epidote flooded, non-magnetic to moderately magnetic late in section. Calcite within matrix. Well fractured interval at 0.15 spacing with 65° avg. angle, fractures dominantly calcite healed. 25.4-25.9 broken rock, very well fractured. 25.9 - 28, good competent rock. 28.4-28.8, calcite healed broken and fractured rock, with limonite staining. 70% matrix supported. Clasts avg. under 1 cm. No significant mineralization.						
28.8-31.5	97	GG - As above. Well fractured and broken rock, avg. 0.1 spacing at avg. 45°. Calcite +lim+mal on fractures. Malachite on higher angle calcite vein related fractures @ 29.2-29.4, 29.6-30, 30.73-31.3. Epidote alteration pervasive. Calcite veining extensive, with significant cross-cutting calcite veinlets. Calcification of matrix and clasts. Minor hematite component, calcite is the chief interstitial component. Possible f.g. CC disseminations. Expect low grade 0.1-0.3 % Cu.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
31.5-34.7	94	GG - Extremely fractured and broken rock. Epidote flooded and altered matrix. Fracs @ all angles, dominantly high angle fractures (70°). Calcite veinlets persistent. Bad ground- clay seams??? Limonite staining pervasive. Calcite within matrix. No significant mineralization noted.	19103	28.74-30.74	0.316	0.6		
			19104	30.74-32.74	0.661	1.3		
			19105	32.74-34.74	0.063	<0.5		
			19106	34.74-36.74	0.024	<0.5		
34.7-37.5	98	GG - Epidote flooded and altered (open texture to closed). Rock altered, but still retains properties as above (e.g. clasts and matrix). Rock is non-magnetic to slightly magnetic. Fracs at 0.1 spacing, avg 40°. Lim+cal+epidote on all fractures + common slickensides. Calcite vein + veinlet associated fractures. Vertical calcite vein related fractures @ 36.85 - 37, 37- 37.5 (with anatomizing calcite vein sets). Epidote alteration surrounds - interval is flooded with epidote. Calcite- Pink (limonite?). No significant mineralization.	19107	36.74-38.74	0.028	<0.5		
			19108	38.74-40.74	0.012	<0.5		
			19109	40.74-42.74	0.019	<0.5		
37.5-45	98	GG- as above. Begins with vertical calcite vein to 40.5. Significant number of vertical fractures within interval. Limonite staining with calcite and epidote related veins. Hematite pervasive within broken interval (37.5-40.5). 40.5-46 more competent rock, GG - epidote flooded. 60% matrix supported, clasts avg. 1 cm, max to 6 cm. 42-45 fractures are at 0.15 avg spacing (45°), and are dominated by sooty gray healed calcite+lim. Epidote veinlets @ 43.8-44. Calcite within matrix. Core is slightly to moderately magnetic. Minor disseminated cc with minor disseminated magnetite. Expect low grade, 0.3% Cu.	19110	42.74-44.74	0.038	<0.5		
			19111	44.74-46.74	0.017	<0.5		
45-49	100	GG - As Above. Epidote flooded. Slightly to moderately magnetic. Closed texture. Calcite within matrix (subtle) - calcite veinlets present and associated with fractures at 46.3, 48.10-48.31. On average, good competent rock. (0.25 spacing at dominantly 30°). Minor open texture late in interval, dominantly closed texture. Disseminated magnetite throughout, with minor cc - and rare to trace CPY disseminated. Expect low - no grade ~0.01% Cu.	19112	46.74-48.74	0.034	<0.5		
			19113	48.74-50.74	0.167	<0.5		
			19114	50.74-52.74	0.227	0.9		
49-54	100	GG -As above. Epidote flooded zone contains open texture zones. Malachite staining on fractures with calcite veins/veinlets @ 51, 51.32-51.52. Fracs frequent, 0.15 avg. spacing at high (70°), all healed with cal+lim+ occasional mal. Epidote veinlets @ 50.63, 53.55, 52.57. major calcite vein at 53.6-54. Calcite within matrix. Core non-magnetic to magnetic. Minor CC disseminated within matrix, as V.F.G. specs - increasing content down interval. Significant sulphide mineralization present, expect 0.5% Cu.	19115	52.74-54.74	0.992	1.6		
			19116	54.74-56.74	2.7	2.7		
54-60	100	GG -AS above. Increased disseminated sulphides (CC+Bn), as V.F.G. disseminations within matrix (with some concentrations around clast rims and within clasts). RR zone from 55-55.58. Hematite rich section at 57.3-57.65. 5 mm calcite vein @ 56.8-57.2, with epidote vein at end of above interval vertical. Good competent rock, rare fractures (vertical fracture at 58.2-58.55). Epidote flooded throughout interval. Fracs ~0.4 spacing at avg 25°. Malachite noted on most fractures. Disseminated blebs of Cc+Bn as clast replacements, associated with red hematite. Non-slightly magnetic. Expect high grade ~ 1% Cu.	19117	56.74-58.74	0.802	1		
			19118	58.74-60.74	0.491	1		
			19119	60.74-62.74	0.363	0.7		
			19121	62.74-64.74	0.445	1.2		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
60-65	100	GG -As above. Epidote altered and flooded. Mineralization same as above with only lower concentrations. Increased CC and less Bn noted within interval. Excellent competency to rock. Malachite infrequent but present on fractures (usually cal+epidote fractures). Fracs avg. 0.3 spacing (60°). Calcite within matrix. Core is non to subtly magnetic. Mineralization V.F.G. specs, mostly CC, apparently associated with hematite clasts and stringers. Calcite interstitial. Malachite on fracture at 64.25. Sulphide mineralization present. Expect 0.5% Cu over interval.	19122	64.74-66.74	0.339	0.5		
			19123	66.74-68.74	0.716	0.9		
			19124	68.74-70.74	1.62	1.4		
65-70	100	GGR - >10% red clasts. Very competent rock. Mineralization as above (disseminated Cc+bn specs to blebs infrequently). Red clasts increasing along with red (hematite) zones. Moderate malachite on fractures. Fracs at 0.45 spacings avg. 60°. Vertical fractures @ 67.9-68.1 (healed with calcite - but epidote related). Epidote flooded and altered interval. Non magnetic. CC + Bn common disseminated sulphides. Replacing red clasts and within matrix, rare blebs. Expect good grade over interval (0.7% Cu).	19125	70.74-72.74	3.08	4.5		
			19126	72.74-74.74	0.711	4.4		
			19127	74.74-76.74	1.18	4.5		
70-78	100	GGR -As above. Red clasts and red zones more prevalent than above. Epidote alteration present. Increased CC+BN+CPY- late interval impressive Bn blebs and disseminations with massive CPY. Grenokite limonite noted within section. Epidote flooded agglomerate. Red Zones increasing along with Bn content. High grade section. Competent rock with infrequent fractures (1 vertical fracture at 78.4-78.6) avg. 25°. Core is non-magnetic. Common Malachite on fractures. 77-78 >3% Cu expected - entire section estimated 1.5% Cu.	19128	76.74-78.74	3.13	8.4		
			19129	78.74-80.74	3.73	12.4		
			19130	80.74-82.74	4.03	4.9		
78-85	100	GGR -As above. Significant mineralization continues as CC+Bn disseminations (with subordinate CPY). Malachite dominant on fractures. Fracs are infrequent (0.3 spaced) avg. 40°. Higher angles late in section (83.5, and 85 - calcite associated). Epidote flooded and altered. Non magnetic. Calcite contained within matrix. Cross-cutting calcite veinlets @ 84-85.2 and the 1 meter previous. High grade section, expect 1-2% Cu.	19131	82.74-84.74	3.75	5.3		
			19132	84.74-86.74	4.77	11.8		
			19133	86.74-88.74	3.38	6.5		
85-90	100	GGR -As above. Malachite stained fractures common within early interval. Bn+CC+Cpy disseminations common within matrix and down interval Py evident as above goes away. Moving out of high grade zone. Epidote flooded and altered interval. Calcite veining present. Rock competent, avg 0.4 spaced ~ 30°. Expect medium grade section 0.4-0.5% Cu.	19134	88.74-90.74	1.57	4.7		
			19135	90.74-92.74	0.014	<0.5		
			19136	92.74-94.74	0.011	<0.5		
90-97.56	100	GGR -As above. Less CC+Bn+Cpy down interval (but present early on 90-95). Py becomes most common sulphide. Last 0.5 meter peters out to no sulphides visible. Out of high grade zone. Calcite veining rare. Rock competent. Limonite on fractures (cal + epidote) associated. Expect low grade section 0.1-0.2% Cu.	19137	94.74-96.74	0.014	<0.5		
			19138	96.74-97.56	0.011	<0.5		

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT	Hole No.: DSR-31
Inclination: -50° Azimuth: 130° Total Depth: 115 m	Logged By: Paul D. Gray
Northing: 49939.67 Easting: 50938.88	Contractor: Britton Bros.
Collar Elev. (Ft): 6165 Core Size: BGM	Date(s) Drilled: 12-Aug-02

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-3.05	35	RR- broken and crumbly with some ground core. Matrix/Clast supported (50-50) pebble conglomerate and grit. Clasts ~ 1cm avg, max to 4cm. Hematite within matrix and surrounding clasts. Epidote X'Ls within mafic clasts. Weak calcite in matrix. Epidote alteration. Boulder? Closed texture. Moderately magnetic. No mineralization noted.						
3.05-9.15	85	RR - As above with sections of ground core (4.15-4.5, 6.85-7.85, 8.67-9.15). Weak epidote within section, esp. on shattered core sections. Fracs at 0.4 spacing @ high angles to core axis (65°). Moderately magnetic core. Weak calcite within matrix. No mineralization noted.						
9.15-15	90	RR - As above. Moderate calcite surrounding clasts in f.g. sections (13.95-14.3) (small clast zones). Hematite present in same manifestation. Lim+Cal+epi on fractures at 13.8-13.91. Broken and fractured section at 11.4-12.6. Core variably magnetic with weak to moderate calcite within matrix. Fracs avg. 0.3 spacing at 60°. No mineralization noted.						
15-19	100	RR- As above. Mixed clast and matrix supported pebble conglomerate. Clasts rounded to subrounded, with occasional fractured clasts. Graded bedding cycles noted. Dominantly coarse matrix supported. Weak to moderate calcite within matrix. Core slightly to weakly magnetic. Fracs at 0.35 spacing at dominantly 65°. Minor disseminated magnetite + hematite within core. No significant mineralization.						
19-25	100	RR- As above. Graded bedding intervals (alternating F.G. and Coarse Grained) intervals, dominantly coarse as above. Variably magnetic (non-weakly magnetic). Weak to moderate calcite within matrix. Epidote has penchant for F.G. intervals (alteration). Good competent rock. Fracs at 0.3 spacing ~45°. Calcite related fractures and veinlets. Hematite persistent within matrix and as rims of clasts. Moderate Epidote alteration over interval. No significant mineralization.						
25-31	100	RR - As above. Calcite+epidote increase through section. Clast supported pebble conglomerate (70% clast supported). Calcite within matrix, still weak to moderate. Epidote continues alteration of F.G. sections. Good competent rock, fractures at 0.45 spacing at low (25°) angles. Rare calcite veinlets. No significant mineralization.						
31-37	100	RR-As above. Same repeating F.G. intervals, with coarser grained intervals dominant. Coarse clast supported pebble conglomerate. Calcite within matrix increasing down interval. Good competent rock. Fracs @ 0.25 spacing low (35°). Disseminated magnetite and hematite noted. Clasts more angular but still pebble conglomerate (some clasts large to 6 cm.). Epidote alteration evident throughout (esp. within the f.g. sections). No significant mineralization.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
37-43	97	RR – As above. Minor ground core sections. Alternating graded bedding, small f.g. intervals (look GG). Rock competent but broken, fractures @ 0.1 spacing dominantly low (20°). More breaks than fractures within section. Two isolated vertical fractures with lim+cal associations (42.45 + 40.88). Core is variably magnetic (non-moderately). Calcite weak to moderate within matrix. Disseminated magnetite and hematite noted. No significant mineralization.						
43-49	98	RR- As above. Last 2.5 metres epidote bleached and altered (transition zone). Some graded bedding. Good competent rock, with fractures at 0.3 spacing with a low avg angle (30°). Clast supported pebble conglomerate dominant over interval. Disseminated magnetite and hematite continue within section. No significant mineralization.						
49-54	97	RR- As above. Transition interval to GGR (53-54). Graded bedding. Weakly calcified matrix. Epidotized matrix (alteration and flooding). Competent rock, fractures at 0.4 spacings avg. 45°. Core is weakly magnetic. Hematite present throughout matrix. Highly altered (bleached and soft from 53.5-53.85). No significant mineralization.						
54-59	98	GGR – Highly epidotized (altered and flooded). 54-55.4 (bleached and soft as above). High calcite content. Rock Fractured at 0.15 spacing (55-60°). Calcite and limonite healed fractures. Variably magnetic. Disseminated magnetite and trace (rare) CPY blebs. Agglomerate (clasts angular and fractured – 50/50 matrix/clast supported). Closed texture. Calcite within matrix. Minor CPY mineralization (expect no-low grade).	19139	54.25-56.25	0.03	<0.5		
			19141	56.25-58.25	0.01	<0.5		
			19142	58.25-60.25	0.031	<0.5		
59-65	95	GGR – As above. 64-65 Brown calcite-epidote altered zone (with open texture) – softer than usual. Fracs at high angles (70°), many vertical (all healed and associated with calcite-epidote veins). Calcite veinlets throughout. Rare Cpy. No grade % Cu expected.	19143	60.25-62.25	0.024	0.5		
			19144	62.25-64.25	0.017	<0.5		
			19145	64.25-66.25	0.014	<0.5		
65-70	90	GGR – As above. 65-67.85 (altered lim+cal as above). Well epidotized. Calcite veinlets common. Calcite contained within matrix. Fractured rock, fractures at 0.10 spacing (50°), dominantly lim+cal healed. Core weakly to moderately magnetic. Disseminated magnetite and trace Cpy. Again no grade Cu expected.	19146	66.25-68.25	0.017	<0.5		
			19147	68.25-70.25	0.012	<0.5		
			19148	70.25-72.25	0.017	<0.5		
70-76	95	GGR- Fine grained agglomerate (clast avg. 0.5 cm). Increasing hematite within matrix and increased red zones. Disseminated magnetite noted with rare blebs of CPY. Fracs at 0.3 spacing at high angle to core axis ~50°, and healed with lim+cal. Epidotized matrix throughout. Well fractured. Disseminated CC?? Core magnetic. Entering low grade envelope? Expect elevate Cu values from above (0.2% Cu).	19149	72.25-74.25	0.015	<0.5		
			19150	74.25-76.25	0.041	<0.5		
			19151	76.25-78.25	0.086	<0.5		
76-83	97	GGR –As above. Epidotization increases, matrix epidote green and altered. Disseminated cc apparent as V.F.G. specs within matrix. 80.65 – 81 malachite staining on fractures. Epidote and calcite related. Variably magnetic core. Epidote veinlets and selvages throughout (as cross-cuttings). Well epidotized matrix. CC disseminations increasing in size down interval. Fractures at 0.2 spacings ~ 45°. Low grade section expected (0.2-0.5% Cu).	19152	78.25-80.25	0.236	0.6		
			19153	80.25-82.25	0.674	2		
			19154	82.25-84.25	0.194	0.8		
83-89	99	GGR- ~10 % Red clasts (on their way out). Very competent rock, fractures at 0.4 spacing at low (25°) angles. Weakly magnetic core. Calcite within matrix. Moderate magnetite throughout interval. CC disseminations with Bn disseminations noted as F.G. specs within matrix. Expect medium grade zone (0.5-1% Cu).	19155	84.25-86.25	0.313	0.8		
			19156	86.25-88.25	0.33	0.7		
			19157	88.25-90.25	0.494	0.8		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
89-94	100	GG - Native Copper @ 92.4-92.6 as small blebs. Competent rock, with fractures at 0.35 spacing ~45°. Core as above with less red clasts. Calcite within matrix. Core moderately magnetic. Epidote flooded and altered. Graded bedding indications on cm scale. Calcite veinlets within section at high angles to core axis. CC disseminated within matrix with minor Bn disseminations. Expect ~ 1% Cu over interval.	19158	90.25-92.25	0.227	0.9		
			19159	92.25-94.25	0.273	0.8		
			19161	94.25-96.25	0.419	1.5		
94-100	100	GG- As above. Fractures at 0.3 spacing ~30°, containing lim+cal. Native copper within section. @ 99.45-99.55. Calcite within matrix. Core is weakly to moderately magnetic. Epidote flooded and altered. Clasts average < 1cm to 0.5 cm within F.g. sections. Malachite staining on some fractures. Native copper common as blebs over the section. Disseminated CC remains albeit less evident. Bn associated with CC disseminations. Expect medium grade Cu (~0.5% Cu).	19162	96.25-98.25	0.285	1		
			19163	98.25-100.25	0.813	1.3		
			19164	100.25-102.25	0.488	0.9		
100-106	99	GG - As above <10% Red clasts. Well epidotized (altered). A f.g. agglomerate texture. Competent rock, fractures spaced 0.35 cm at average 50° angle. Vertical fractures @ 101.1-101.2 (lim stained). N.C. noted at 102.85-102.9 as disseminated blebs within a red hematite rich zone. Calcite weak within matrix. Core is variably magnetic (non-moderately). Fine grained cc disseminated as specs throughout (occasionally as blebs to coarse grained). Magnetite disseminated occasionally. Expect 0.5-1% Cu within interval.	19165	102.25-104.25	0.521	0.9		
			19166	104.25-106.25	0.275	0.5		
			19167	106.25-108.25	1.68	0.7		
106-115	95	GG - as above. Increased Bn+CC content. F.G. disseminated sulphides (CC+Bn) within matrix and clasts. Malachite staining on fractures, esp. vertical fracture @ 108.3-108.8 (small subtle blebs of mal). Rock ~ Competent, with fractures @ 0.25 spacing (60°). Variably magnetic core. Calcite intestinal, but weak. Entire section epidotized. Heavily hematite intruded zone 109-112 (red zone with hematite rimming clasts). Expect high grade zone 1% Cu.	19168	108.25-110.25	3.64	1.5		
			19169	110.25-112.25	2.55	1.4		
			19170	112.25-114.25	0.452	<0.5		
			19171	114.25-115.85	0.201	<0.5		

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT

Hole No.: DSR-32

Inclination: -90°

Azimuth:

Total Depth: 106.71 m

Logged By: Paul D. Gray

Northing: 49939.67

Easting: 50938.88

Contractor: Britton Bros.

Collar Elev. (Ft): 6165

Core Size: BGM - NQ3

Date(s) Drilled: 14-Aug-02

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-9	65	RR – Dominantly a pebble conglomerate (Rounded to sub-rounded clasts) Clasts ~ 1cm, max 1.3. Closed texture. 50% matrix-clast supported. Calcite subtle but present within matrix and as clasts. No calcite veinlets. Weak to non magnetic core. Red matrix and clasts primary. Ground core and broken rubble within section. Fractured rock, fractures at 0.15 spacing (40°), lim+cal associated and healed. Expect no grade as no significant mineralization seen.						
9-15	98	RR – As above. (50-50 M-C) Clasts more rounded. ~ <1cm, max to 7 cm.. Grade bedding over 3-6 cm intervals. Calcite moderate within matrix. Core is variably magnetic from weak to moderate. Epidote alteration indications (moderate to weak – f.g. intervals more likely to be epidotized). Rock competent, Fractured at 0.25 spacing (35°). Vertical fractures at 14.5-14.65, lim+cal associated. Closed texture. No significant mineralization noted.						
15-24.39	95	RR- As above. Closed texture. Calcite within matrix. Epidote alteration indications. Epidote X's present. F.G. graded beds – epidote altered. Competent rock, fractures at 0.3 spacing (65°). Vertical fractures at 15.25, 18.1, 20.1-20.3, 18.3-18.5. 20-24.4 is more competent (0.4 spacing at low angles). End of BQ run. No mineralization noted.						
24.39-30	99	RR – NQ core begins. As Above. Graded bedding intervals. Hematite pervasive. 27.3-30 well epidotized within matrix (epidote altered and flooded). Max clast to 12 cm. Calcite within matrix. Core is subtly magnetic. Increasingly matrix supported (65%). Very competent rock, fractures avg. 0.35 spacing (30°). Vertical fracture set at 25.5-25.7, lim-cal associated fractures. No significant mineralization noted.						
30-37	98	RR – As above. Increased indications of epidote flooding. Graded beds present. Hematite throughout. Calcite throughout matrix. Weakly magnetic core. Rock competent, fractures at 0.45 spacing (30°), calcite and limonite related. No significant mineralization noted.						
37-43	100	RR – As above. Epidote indications increasing. Looking transitional. Still pebble conglomerate. Matrix contains calcite. Variably magnetic core. Good Competent Rock, fractures at 0.4 spacing (30°), cal+lim associated. Graded bedding intervals. No significant mineralization.						
43-49	100	GGR- Transition zone. Epidote flooded and altered. Matrix supported agglomerate. Angular and broken clasts > 10 red. 65% matrix supported. Closed texture. Graded bedding continues on 10 cm scale. F.G. sections epidote altered. Hematite rims clasts. Competent rock, Fractures @ 0.4 spacing (20°); high angle at 44.2 (65°). Lim+cal associated with fractures. Calcite within matrix. Moderately magnetic core (disseminated Magnetite noted as V.F.G. specs within matrix). No significant mineralization noted.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
49-55	100	GGR- As above. >10% red clasts, large to 10 cm. Possible disseminated sulphides (occasional and U.F.G.). Average smaller clasts than above. Competent Rock, fractures at 0.35 spacing (40°), lim+cal on fractures. Rare native copper specs noted. Calcite within matrix. Moderately magnetic core. Possible disseminated CC? Expect no-low grade 0.1% Cu.	19172	51.83-53.83	0.027	<0.5		
			19173	53.83-55.83	0.046	<0.5		
			19174	55.83-57.83	0.075	<0.5		
55-61	100	GGR - As Above. Common N.C. specs and blebs (some large to 3mm; avg. <1mm). N.C. affinity for mafic clasts, but also disseminated as F.g. specs within matrix and as rims to clasts. Rare sulphides (CC) disseminated V.F.G. within matrix. N>C. ~1% disseminated, with affinity for Reddened zones. Calcite within matrix. Magnetic core, esp. where disseminated magnetite seen. N.C. throughout - 56-61 strong. Rock competent, fractures at 0.25 spacing (40°). Expect low to medium grade (high to 0.5%).	19175	57.83-59.83	0.349	0.7		
			19176	59.83-61.83	0.286	0.7		
			19177	61.83-63.83	0.27	0.8		
61-67	100	GGR -As above. N.C. blebs and specs common. Disseminated sulphides increasing. Calcite within matrix (subtle). Core magnetic. Very competent rock, fractures infrequent, spaced 1.5 at 45°. Malachite noted on fractures late in interval. Disseminated N.C. pervasive (+ sulphides). Closed texture. Epidote alteration and flooding. Expect higher grade than previous interval, 0.5-0.75% Cu.	19178	63.83-65.83	0.53	1.2		
			19179	65.83-67.83	0.689	0.7		
			19181	67.83-69.83	0.455	1.1		
67-72	98	GGR - As above. Native Copper dominant mineralization. Malachite on all fractures. F.G. zones yield increased N.C. (graded bedding). Calcite within matrix. Magnetic core. Disseminated sulphides (cc) more common, and have a direct association with N.C.. This is a copper flooded zone. Entire sequence epidote flooded. N.C. as blebs and specs, and disseminated pervasively. Cc disseminated in all f.g. intervals. Magnetite disseminated ubiquitously as well. Expect ~ 1% Cu.	19182	69.83-71.83	0.346	0.9		
			19183	71.83-73.83	0.601	1.7		
			19184	73.83-75.83	0.963	2.7		
72-78	100	GGR - As above. N.C. still around, but in less quantity than above interval. Epidote flooded and altered, esp. within f.g. sections. 76.70 -78 major N.C. replacement of mafic clasts. CC content on rise, but still V.F.G. and disseminated. Magnetic core. Calcite within matrix. A coarse grain agglomerate. N.C. as before, just in less amounts. Competent rock, fractures at 0.4 spacing (60°), vertical fractures at 72.6-72.8. Expect medium grade Cu, 0.5% Cu.	19185	75.83-77.83	0.465	1.7		
			19186	77.83-79.83	0.433	1.3		
			19187	79.83-81.83	0.478	1.2		
78-83	100	GGR- As above with more rounded clasts, and more matrix supported (75%). N.C. around, but phasing out to increasing CC+Bn (as disseminations to rare blebs). N.C. maintains affinity for red zones. Epidote flooded interval (N.C. related to epidote). Calcite within matrix. CC V.F.G. disseminations (specs). Variably magnetic core (weak to magnetic). CC increasing down section. Good competent rock, 0.5 spacings at 25°. Expect >1% Cu.	19188	81.83-83.83	0.333	0.9		
			19189	83.83-85.83	0.54	0.9		
			19190	85.83-87.83	0.381	0.6		
83-90	97	GGR - As above. Native copper around but much more finely disseminated than the BN+CC. Calcite more subtle than previously. Rock is variably magnetic from non-moderately magnetic. N.C. as blebs and disseminations. F.g. sections have minor calcite veinlets at high angles to core axis. Fractures at 0.4 spacing (45°), malachite on some, but most limonite+calcite. Mal increases late in interval, with increased CC+bn (f.g. disseminations). Expect 1-1.5% Cu.	19191	87.83-89.83	1.34	1.9		
			19192	89.83-91.83	1.18	1.9		
			19193	91.83-93.83	2	4.8		
90-96	100	GGR- As above. High grade interval. Disseminated CC+ Bn frequent. Epidote flooded section (altered). Classic high grade green-purple look. Fractures at 0.3 spacing (60°). Malachite staining on all fractures. N.C. rare down section, CC+Bn dominant mineralization. Core is non magnetic. Calcite within matrix. Bn content significant, expect HIGH GRADE 2-4% Cu.	19194	93.83-95.83	0.748	3.4		
			19195	95.83-97.83	0.055	<0.5		
			19196	97.83-99.83	0.012	<0.5		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)			
96-100	100	GG - As above with less mineralization, still CC+Bn but in lower quantities than previous. CPY blebs and disseminated specs noted 97-98. Competent rock, fractures at 0.45 spacing (60°), cal+lim with fractures. Calcite within matrix. Core variably magnetic (from non to moderate late in interval). Epidote altered and flooded. CC+Bn F.G. disseminations within matrix and clasts. High grade interval still expected >1% Cu	19197	99.83-101.83	0.007	<0.5			
			19198	101.83-103.83	0.01	<0.5			
			19199	103.83-106.71	0.01	<0.5			
100-106.71	100	GG - AS above. Out of high grade zone. Calcite subtle within matrix. Fractured rock, fractures at 0.35 spacing (65°). Minor sulphides present; Py noted (into footwall). Expect intermediate to low grade (0.5-0.1% Cu).							
		Notes:							
		Few calcite veinlets within hole.							
		Massive Native Copper flooded zone - cliff proximity?							
		8 meters of HIGH GRADE - and quickly out.							
		Large ~1%-0.5% mineralization halo.							
		Cpy to Py on footwall.							

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT	Hole No.: DSR-33		
Inclination: -50°	Azimuth: 040°	Total Depth: 112.80 m	
Northing: 49939.67	Easting: 50938.88	Logged By: Paul D. Gray	
Collar Elev. (Ft): 6165	Core Size: BGM	Contractor: Britton Bros.	
		Date(s) Drilled: 15-Aug-02	

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-3.05	2	RR - One small piece (10cm) returned. Probably in place, but could be felsenmeer. See Below.						
3.05-6.10	70	RR - clast/matrix supported agglomerate. Graded Beds with fine grained sections. Calcite within matrix. Core is weakly to non-magnetic. Hematite content large. Fractures at 0.25 spacing @ low angles (30°) to core axis.						
6.10-16	90	RR - 50-50 matrix-clast supported Pebble conglomerate. Clasts around 1 cm avg. Fine grained graded sections on >10 cm scale. Hematite throughout. Calcite within Matrix. Core is weakly to non-magnetic. Good competent rock, except for 12.2-12.35 (ground and rubbely) fractures at 0.3 spacing (65°), vertical fractures from 9.25-9.7, 8.79, 11.2-11.3, 15-15.1 within F.g. epidotized zone. No significant mineralization.						
16-23	99	RR - As above. 65% clast supported pebble conglomerate. Calcite present within matrix. Variably magnetic (clasts magnetic, matrix non). Epidote altered throughout. Fractures at 0.40 spacing (45°). F.G. graded sections at 16-16.44, 17-17.3. No significant mineralization.						
23-29	100	RR - as above with dominantly f.g. (0.5 cm) clast sizes. Alternating layers of graded beds. Epidote altered throughout. Increasing calcite content. Rare calcite veinlets (small stingers). Small (10cm) zones epidote flooded. Epidote X's ubiquitous within mafic clasts. 65% clast supported. Closed texture. Good competent rock, fractures at 0.5 spacing (40°), dominantly calcite healed. Hematite throughout (rims of clasts). 27-29 Epidote flooded, with increased calcite content of matrix. No significant mineralization.						
29-39	98	RR -As above. Epidote flooding from above continues to 31. Large 25 cm clast @ 31.3. Continued graded bedding. Epidote and calcite veins at 33-33.42 (set of two). Epidote flooding related veins. F.G. beds at 34-35, 36.8-37.3. Good competent rock, fractures at 0.4 spacing (45°). Calcite within matrix. Variably magnetic core, from non-moderate. No significant mineralization noted.						
39-45	100	RR-GGR Transition zone. RR - to 42.5, 42.5-45 GGR. RR section as above. Vertical fractures at 39.73-40.45 (cal-lim related and healed). Specs of N.C. @ 41.2 within f.g. band of graded beds. Hematite throughout section (esp. rims of clasts). N.C. rare. Core moderately magnetic. Calcite within matrix. GGR - >10% red clasts - epidote flooded. Fractures at 0.25 spacing (45°). No significant mineralization (trace to rare N.C.) expect no grade.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
45-51	100	GGR - As Above. Fractured and broken clasts ~ 1cm avg. Matrix supported agglomerate. Calcite content moderate within matrix. Epidotized interval. Variably magnetic core (mafic clasts strongly magnetic, matrix weakly magnetic). Good competent rock, fractures at 0.5 spacing (35°). Trace-rare N.C. specs. Disseminated magnetite present as V.F.G. disseminations within matrix. Graded bedding on same cm scale as above, with F.G. sections well epidotized (flooded and altered). No significant mineralization noted (trace - rare N.C; no grade expected).	19201	48.38-50.38	0.011	<0.5		
			19202	50.38-52.38	0.037	<0.5		
			19203	52.38-54.38	0.073	<0.5		
51-57	100	GGR- As above. Core moderately magnetic. Calcite content within matrix moderate. Epidotized interval. N.C. specs and blebs + disseminations within matrix. Disseminated sulphides (CC+Bn) first noted. Malachite stained fractures common (esp. on vertical fractures at 53.78-54.88), associated with cal+epidote veins. 56.2 large bleb of N.C. (4mm). Epidote flooded f.g. section @ 52.25-52.69. Fractures around @ 0.25 spacing (70°). N.C. content increasing down interval. Possible cc+bn disseminated v.f.g. sulphide mineralization. Expect low grade (0.1-0.3% Cu).	19204	54.38-56.38	0.275	0.8		
			19205	56.38-58.38	0.369	0.8		
			19206	58.38-60.38	0.284	0.8		
57-64	100	GGR- As above. N.C. disseminated within matrix and as rims of clasts. Calcite content within matrix moderate. Core magnetic. Infrequent fracture density, fractures at 1.5 spacing (20°). N.C. as disseminated F.G. specs and larger blebs. Graded bedding within interval. Well epidotized section. No grade expected.	19207	60.38-62.38	0.314	0.8		
			19208	62.38-64.38	0.242	0.8		
			19209	64.38-66.38	0.231	<0.5		
64-74	100	GGR- As Above. Disseminated cc+bn increasing (disseminated within matrix as f.g. to coarser blebs). Bn strung out in stringers as well. Epidotization ubiquitous over interval. N.C. still around as fine disseminations. Graded bedding continues. Fractures contain malachite, esp. 69-74. Fractures 0.3 spacing (60°); minor calcite veinlets+lim and cal associated. Expect medium - high grade over interval (~1% Cu).	19210	66.38-68.38	1.13	1.1		
			19211	68.38-70.38	0.808	0.9		
			19212	70.38-72.38	0.458	0.8		
74-79	100	GGR - As above. > 10% red clasts. Malachite staining on fractures (esp. 74.3-75 - vertical fractures). N.C. within matrix as f.g. disseminated specs. CC+Bn also f.g. disseminations, albeit less than previous quantity. Vertical fractures with malachite at 78.25-78.4. Calcite within matrix. Variably magnetic (weak to moderate). Fractures 0.4 spaced (30°). Calcite veins rare, some veinlets. Expect medium grade over interval (~0.75% Cu).	19213	72.38-74.38	0.238	0.5		
			19214	74.38-76.38	0.954	1.5		
			19215	76.38-78.38	0.378	0.9		
79-86	100	GGR- As above. Increased CC+Bn dissemination. Epidotized graded bedding interval. Good competent rock, with infrequent fractures, 1 meter spaced (20°). Malachite staining common. Core magnetic (moderately). Calcite present within matrix. Trace N.C. expect >1% Cu grade.	19216	78.38-80.38	0.582	1.5		
			19217	80.38-82.38	4.34	8.5		
			19218	82.38-84.38	0.682	3.3		
86-92	100	GGR- As above. Well fractured interval with common malachite staining. Fractures (80°) 0.1 spaced.; vertical fractures from 86-88.5 (mal+cal+cc+bn). Brownish open texture type alteration 90-90.5. CC+Bn disseminated as f.g. specs within matrix. Expect high grade ~2% Cu.	19219	84.38-86.38	3.98	14.9		
			19221	86.38-88.38	4.08	7.8		
			19222	88.38-90.38	2.01	5.1		
92-98	100	GG- as above with <10% red clasts (transition). Calcite veins and veinlets common. Fractures at high angles (65°+) spaced 0.35; lim+cal healed. CC+Bn disseminated but less intensely than above. Calcite within matrix. Core variably magnetic. Lim+cal healed fractures dominate. CPY+Py dissemination noted as v.f.g. to f.g. Epidote flooded (esp. 97.5-97.8). Expect low to medium grade (0.5% Cu).	19223	90.38-92.38	0.018	<0.5		
			19224	92.38-94.38	0.021	<0.5		
			19225	94.38-96.38	0.022	<0.5		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
98-104	100	GG - As above. Disseminated CPY+Py trace (moving out). Passed through high grade zone into footwall. Fractures common, 0.35 spacing (50°). Calcite veins and veinlets more common. Py present with Cpy associations. Epidote flooded - calcite+epidote veins. Expect low to no grade (0.2-0.1% Cu).	19226	96.38-98.38	0.031	<0.5		
			19227	98.38-100.38	0.013	<0.5		
			19228	100.38-102.38	0.01	<0.5		
104-112.80	100	GG - As above. Fractures average ~ 50° spaced 0.3 m. Py trace to rare, but present. Increased calcite content. Good competent rock. Rock variably magnetic (weak to moderately magnetic). Expect no grade % Cu.	19229	102.38-104.38	0.012	<0.5		
			19230	104.38-106.38	0.008	<0.5		
			19231	106.38-108.38	0.013	<0.5		
			19232	108.38-110.38	0.013	<0.5		
			19233	110.38-112.8	0.012	<0.5		

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT	Hole No.: DSR-34
Inclination: -50° Azimuth: 040° Total Depth: 91.46 m	Logged By: Paul D. Gray
Northing: 49608.61 Easting: 51024.07	Contractor: Britton Bros.
Collar Elev. (Ft): 6049.319 Core Size: NQ	Date(s) Drilled: August 15-16, 2002

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-9	72	RR - Epidotized Agglomerate. Matrix supported. Closed textures. Variable sized clasts (coarse to fine; avg > 1cm.). Graded bedding intervals (10 cm scale). F.G.-c.g. matrix epidotized. Calcite contained within matrix and as clasts. Core variably magnetic (weak to magnetic); clasts magnetic. Hematite present within matrix. And as rims around clasts. Rock competent, fractures average 0.35 spacing (30°). Calcite vein @ 5.85 - 6.1, anastomoses to 5.6. Calcite content moderate. Clasts angular and broken. No significant mineralization						
9-15	98	RR - As above with increased graded bedding sections (10-20cm). Epidote continually evident within matrix. Graded beds @ low angles to core axis (20°). Fractures sub-common at 0.3 spacing (20°); vertical fractures 14-14.4, 11.7-11.8 (unhealed). Most fractures are unhealed, some healed with cal + rare lim. Calcite moderate within matrix, core variably magnetic as above. No significant mineralization.						
15-20	97	RR - As above. Competent rock with fractures at 0.35 spacing (60°), some healed with cal+lim (vertical fractures at 17.9-18.3). Well epidotized within f.g. matrix zones. Calcite content moderate within matrix and clasts - rare calcite veins. No significant mineralization.						
20-27	99	RR- As above. Increasingly epidotized. Continued intervals of graded bedding. Sub-competent rock, fractures at ~0.3 spacing (45°) - dominantly unhealed. Hematite content constant and mostly as rims of clasts. Vertical fractures at 23.4-23.5. No significant mineralization						
27-33	98	RR - As above with slightly finer grained clasts (avg. > 1cm). Graded bed interval? Increased calcite vein content, cross-cutting at all angles. 29.5-33 slightly more calcite veins than 27-29.5. Calcite within matrix and as clasts. Core weakly to moderately magnetic. Epidote alteration prevalent as above. Competent rock, fractures at 0.12 spacing (65°) +/- healed with cal+lim (vertical fractures at 27.2-27.5), 29.3-29.45). Significant epidote within vertical fractures at 31.8-32.1. No significant mineralization.						
33-38	98	RR- As above with epidote veining related flooding and alteration. Calcite and epidote veinlets common (esp. 33.2-36.6). Limonite increases on fractures. Rock competent, with fractures at 0.3 spacing (30°); limonite+calcite related and healed. Slickensides with epidote fractures. Epidote flooded zones appears to have been forcefully injected and shocked the country rock. Graded bedding indications. No significant mineralization.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
38-44	95	RR- As above. Significant epidotization (transitional indicators). Graded bedding continues. 42.2-42.55 broken and rubbly, calcite vein related and associated. Rock +/- competent, with fractures at 0.3 spacing (50°), verticals at 38-38.3, 43.6-43.8; common cal+lim on fractures (as healings). Calcite moderate within matrix. Core moderately magnetic. Disseminated magnetite throughout matrix. Trace Native copper as v.f.g. specs of disseminations. No significant mineralization.						
44-50	99	RR- as above to GGR (@48.5). GGR - 50-50 matrix-clast supported agglomerate. Clasts avg. ~1cm, and are broken and fractured. Calcite content moderate within matrix. Native copper disseminations to blebs common (esp. 45.5-50). N.C. disseminated within matrix and has an affinity for mafic clasts. Core magnetic. N.C. Blebs to 5mm. Specs of f.g. disseminated CC within interval. Rock competent, with fractures @0.35 spacings (50°); healed and unhealed. Lack of calcite veinlets and epidote veinlets. Epidote alteration apparent. Expect low grade >0.5% Cu.	19234	44.03-46.03	0.026	<0.5		
			19235	46.03-48.03	0.064	<0.5		
			19236	48.03-50.03	0.346	0.9		
50-57	99	GGR- As above. Disseminated N.C. common (f.g.) and disseminated CC (v.f.g.) more common, both within matrix. N.C. dominant disseminated metal. Malachite stains on fractures @ 50.71, 51.5, 51.75. Core magnetic - weakly. Rock ~ competent, with fractures at 0.3 spacing (60°); most unhealed. Increased cc+bn f.g. disseminations down interval; as disseminations within matrix. Expect increased copper grade; estimate 0.5-0.8% Cu.	19237	50.03-52.03	0.438	1.4		
			19238	52.03-54.03	0.271	0.9		
			19239	54.03-56.03	0.247	13.1		
57-62	100	GGR- As Above with increased disseminated sulphides (cc+bn). Disseminated magnetite ubiquitous. Malachite staining on vertical fracture at 59.8-60.17. Magnetite flooded. N.C. specs and disseminations rare but present. Core magnetic. Moderate calcite content. Calcite veinlets occasional. Calcite healed fractures. Rock is competent, with fractures at 0.35 avg. spacing (65°). Expect medium grade (0.5-0.7% Cu).	19241	56.03-58.03	0.835	3.6		
			19242	58.03-60.03	0.736	1.6		
			19243	60.03-62.03	0.316	4.5		
62-67	95	GGR- as above. Well epidotized (flooded and altered). Well broken and fractures rock, with fractures at 0.2 spacing (45°) (0.1 spacing from 64-67); most healed with calcite and limonite + epidote. Calcite veinlets epidote associated. Malachite staining on some calcite veinlets (69.4-69.7, 66.5-66.7) Calcite moderate within matrix. Core magnetic even within epidote flooded zone. Disseminated sulphides (CC+Bn) + magnetite disseminated ubiquitously. Estimate 0.5% Cu.	19244	62.03-64.03	0.291	3.2		
			19245	64.03-66.03	0.639	0.7		
			19246	66.03-68.03	0.489	<0.5		
67-73	95	GGR -as Above., Epidote flooded. Disseminated sulphides continue to increase. Calcite content low-moderate (esp. within epidote flooded zones.). Calcite veinlets throughout, tend to be closely spaced and cause fractures 69.5-71 (fractures spaced 0.07 at 70°); calcite+lim+mal+epi over interval. Cc+bn disseminated finely throughout matrix and as blebs to 1 mm. Disseminated magnetite continues. Core variably magnetic (moderate to magnetic). Expect elevated cu values >1% Cu.	19247	68.03-70.03	0.162	0.5		
			19248	70.03-72.03	0.567	0.6		
			19249	72.03-74.3	3.02	0.9		
73-79	100	GGR- As above. High grade zone. Disseminated CC+bn dominate interval as f.g. disseminations within matrix to blebs to 2 mm. Core weakly magnetic and calcite content of matrix is low. Classic Sustut high grade zone. Fractures at 0.35 spacing (60°); some healed with calcite+epi+lim. Epidote altered and flooded zone. Malachite stains on most fractures. Expect high grade zone - > 2% Cu.	19250	74.3-76.03	6.04	0.9		
			19251	76.03-78.03	3.54	1.1		
			19252	78.03-80.03	3.4	23		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
79-85	100	GGR- As above. Epidote flooded High grade zone of disseminated CC+bn within matrix. Malachite staining common on healed (cal) fractures. Calcite content low to moderate. Core is variably magnetic (non to weak). Rock competent, with fractures @ 0.4 spacing (60°); most healed cal+lim+mal. High grade zone early in section, medium grade section down interval. Expect ~ 1% Cu over interval.	19253	80.03-82.03	1.3	0.9		
			19254	82.03-84.03	2.19	1		
			19255	84.03-86.03	1.08	1.8		
85-91.46	99	GGR - As above with less CC+Bn disseminations. CPY noted as disseminations and blebs and replacements @ 88.5-88.6. Malachite staining within fractures prevalent. CPY has affinity for mafics, but is throughout. Passed through mineralized section and into footwall. 88.6-91.46 (No significant mineralization), 85-88 (CC+Bn+CPY), and quickly out. Estimate 0.5% over interval.	19256	86.03-88.03	1.14	5.6		
			19257	88.03-88.83	4.02	8.5		
			19258	88.83-91.46	0.015	<0.5		

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT

Hole No.: DSR-35

Inclination: -90°

Azimuth:

Total Depth: 76.22 m

Logged By: Paul D. Gray

Northing: 50135.23

Easting: 50712.01

Contractor: Britton Bros.

Collar Elev. (Ft): 6102.706

Core Size: BGM

Date(s) Drilled: 16-Aug-02

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-9	80	RR – Epidote altered, 65% matrix supported pebble conglomerate. Epidote alteration rims around clasts (avg >1cm). Closed texture. Subtle calcite content within matrix. Core is non to weakly magnetic. Hematite within mafics and disseminated. Max clast size to 4 cm. Calcite as small clasts (fillings). Graded bedding intervals on cm scale). Rocks sub-competent, with fractures 0.25 spacing (40°); vertical fractures at 4.8-5. No significant mineralization						
9-15	98	RR – As above. Increased matrix supported (70%). Calcite moderate within the matrix. Core is non to weakly magnetic. Calcite veinlets occasional with epidote. Epidote alteration more evident, flooding at 13.54. Dark unit (f.g.) 9-9.5. Rock competent, with fractures at 0.35 spacing (55°). Fractures healed with +/- healed with calcite+lim+epidote. High angle fractures at 12.5-12.65, 13.6-13.75. no significant mineralization.						
15-21	100	RR- As above to GGR (16.7-20). Graded beds. Increased calcite content within matrix (moderate). > 10% red clasts. Clasts to subangular. Agglomerate. 65% matrix supported. Competent rock, with fractures at 0.45 spacing (60°); healed with cal+lim – epidote-cal vein associated. Calcite veinlets more common within GGR unit. Hematite frequent as clast rims. Core weak-moderately magnetic. Disseminated magnetite / specular hematite noted within GGR. No significant mineralization.						
21-27	100	GGR- As Above. Very well epidotized. Competent rock, with fractures at 0.4 spacing (60°). 24.3-24.4, cal + epidote vein 92cm) with isolated malachite specs. Fractures healed with Cal+Lim. Calcite moderate within matrix. Core moderately magnetic. No significant mineralization.						
27-33	99	GGR- As above with increased dark intervals 27-28. Good competent rock, with fractures at 0.4 spacing (50°); high angles at 30.1-30.3, 27.4, 32-32.1 (healed with cal+lim), Epidote alteration throughout matrix. Occasional calcite veinlets. Calcite content within matrix. Core magnetic to moderately magnetic. Specular hematite ? disseminated (magnetite) trace but present. No significant mineralization.	19259	32.1-34.1	0.256	0.6		
			19261	34.1-36.1	0.443	1		
			19262	36.1-38.1	0.414	1		
33-39	98	GGR – As above. Native copper disseminations evident as f.g. specs within matrix. Competent rock, with fractures 0.4 spacing (45°). High angle fractures at 35.85-36.3 (vertical with cal+lim healed). Possible cc+bn as v.f.g. disseminations (possibly specular hematite??). Calcite content of matrix subtle. Rock magnetic throughout. Suspect low grade (0.2-0.5% Cu).	19263	38.1-40.1	1.25	1		
			19264	40.1-42.1	1.83	1.6		
			19265	42.1-44.1	2.51	4.2		
39-44	100	GGR – As above. Native Copper disseminated within matrix to blebs, with affinity for red zones and mafic clasts. Calcite within matrix moderately. Magnetic core. Suspect possible CC+Bn as v.f.g. disseminations. Calcite veinlets occasional at high angles 80°. Competent rock, with infrequent fractures, 1.0 spacing (65°). Malachite stain with cal+lim at 42.3-42.5. Suspect lowest grade ~0.5% Cu.	19266	44.1-46.1	0.265	1.6		
			19267	46.1-48.1	0.239	1		
			19268	48.1-50.1	0.094	0.9		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
44-50	98	GGR - as above. Good competent rock, with infrequent fractures at 1.2 spacing (20°). Disseminated Cc+Bn within matrix as f.g. specs (associated with mafic clasts?). Native copper less prevalent down interval (to rare), First 2 m, disseminated as v.f.g. Calcite content moderate. Rock weakly to moderately magnetic. Down interval less magnetic with increased epidotization. Expect >1% Cu.	19269	50.1-52.1	2.36	4.3		
			19270	52.1-54.1	1.15	3.6		
			19271	54.1-56.1	2.51	0.8		
50-56	99	GGR - As above. Increased CC+bn disseminations. Rock less magnetic (to weak). Calcite content moderate. Bn+CC f.g. specs disseminations noted within matrix. Core fractured at 0.3 spacing (40°). Malachite staining 52 (cal + lim healed). CPY disseminations and blebs with calcite associations @ 54.4-55. High Grade section, expect > 1% Cu.	19272	56.1-58.1	2.06	0.8		
			19273	58.1-60.1	3.52	0.9		
			19274	60.1-62.1	3.44	0.8		
56-62	100	GGR- As above. Red Hematite rich matrix 55.4-56.5. Large clast to 40 cm, otherwise as above. Epidote altered matrix and clasts (rims). Weakly to non magnetic core. Calcite within matrix - moderate. Good competent rock, with Fractures @ 2 m intervals (40°) Disseminated CC+Bn prominent with interval. Expect high grade 2% Cu.	19275	62.1-64.1	4.94	0.5		
			19276	64.1-66.1	1.76	1		
			19277	66.1-68.1	0.379	1		
62-67	100	GGR- As above. Epidote flooded matrix and altered clasts. More fractures - Cal+Lim + Grenokite, with malachite prominent within healed fractures. Fractures at 1.2 m spacing (60°). Cc+bn disseminated throughout matrix and clasts. Calcite within matrix. Core non-weakly magnetic. Sulphides as f.g. specs. 66.8-67 vertical fracture healed with mal+cal+lim. Expect High Grade > 1% Cu.	19278	68.1-70.1	0.271	0.7		
			19279	70.1-72.1	1.35	0.8		
			19281	72.1-74.1	0.017	<0.5		
67-72	100	GGR- As above. Epidote altered. Cc+Bn in limited amounts. Passed through high grade section into low grade. 67-67.5 contains mineralization, otherwise no significant mineralization. Quick break from high grade zone. Decreasing CC+bn down interval to none noted at bottom. Fractures contain malachite staining, and are healed with epi+cal+lim. Rock fractures, vertical fractures at 67-68.37, 69.75-69.85, spaced at 0.9 (65°). Calcite content exists. Core non to weakly magnetic. Expect low grade <0.5% Cu.	19282	74.1-76.22	0.011	<0.5		
72-76.22	100	GGR - As above. Increasing calcite content and magnetism (to moderate). Calcite veinlets pervasive. Fracture related and associated with calcite veinlets. Epidotization pervasive. Expect no grade (0.1% Cu Max).						

Doublestar Resources Ltd.

Core Log Data Sheet

Project:	SUSTUT			Hole No.:	DSR-36		
Inclination:	-50°	Azimuth:	040	Total Depth:	76.22 m		
Northing:	50218.56	Easting:	50784.23	Logged By:	Paul D. Gray		
Collar Elev. (Ft):	6140.046	Core Size:	BGM	Contractor:	Britton Bros.		
				Date(s) Drilled:	16-Aug-02		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-9	50	RRG- subrounded to angular clasts within 70 % matrix supported agglomerate. Max clast to 10 cm, avg. 2cm. Variable composition of clasts as usual. Calcite within matrix, but subtle. Minor epidote alteration indications. Rock competent, with fractures at 0.3 spacing (45°); healed and unhealed (cal+lim). Matrix non-magnetic, clasts magnetic. No significant mineralization.						
9-15	90	RRG -As above. >10 green clasts. Graded beds (on 10 cm intervals). Interstitial quartz noted occasionally. Calcite less subtle than above. Epidote alteration indications (esp. down interval). Rock sub-competent, with fractures 0.4 spaced (40°); healed and non. Heavily fractured zones at 11.8-12.2, 10.5-10.9. Stronger Epidote alteration of F.G. intervals. No significant mineralization.						
15-21	98	RRG - AS above with f.g. clasts averaging 1 cm. F.G. zones epidote altered. More epidote alteration to entire interval than above. Rock competent, with fractures 0.45 spaced (30°). Epidote altered matrix. Calcite weak within matrix. Core variably magnetic. Clasts magnetic. No significant mineralization.						
21-27	99	RRG - As above. Increasingly epidotized (altered and flooded). Max clast to 30 cm, avg. 1cm. Core moderately magnetic. Calcite content subtle but present. Good competent rock, with fractures 0.4 spaced (20°); unhealed. Core moderately magnetic. Disseminated magnetite noted within core matrix. Graded bedding sequences continue. No significant mineralization.						
27-33	100	RRG - As above. Calcite content within matrix increasing. Rock magnetic. Epidotized intervals 27-28.7), flooded elsewhere and altered, but not bleached like that one. Good competent rock, with fractures at 1 m spacing (60°); vertical fractures at 32-32.15, 29.8-30; most unhealed, but minor with calcite. No significant mineralization.						
33-39	100	RRG - As above to GGR (transition zone). Epidote flooded > 10% red clasts, f.g. 70 % matrix supported agglomerate, with average clast size 1 cm, clasts subrounded to angular. RRG - 33-34, GGR 34-39. Epidote calcite vein at 33.3-33.45. Disseminated f.g. specs of N.C. with vein, and at other small vein at 34.3. Calcite veinlets common. Disseminated magnetite common. Rock magnetic. Calcite content moderate. Rock competent, with fractures at 0.4 spacing (60°). Mal on fracture @ 37.1 and 37.2. Expect low grade 0.1% Cu.	19283	32.43-34.43	0.169	0.7		
			19284	34.43-36.43	0.204	0.7		
			19285	36.43-38.43	0.3	1		
39-45	98	GGR - as above with increased but subtle sulphides (v.f.g. CC+bn). Disseminated N.C. within matrix and clasts as v.f.g. specs. Calcite content of matrix moderate. Core moderately magnetic. Possible specular hematite disseminated throughout with magnetite. CC v.f.g. and more prominent down section. Rock ~ competent, with fractures at 0.4 spacing (70°); vertical fractures at 42-43; mal stains plus cal+lim healed fractures. Fractures are calcite vein related and associated. Expect low grade Cu, 0.2-0.5% Cu.	19286	38.43-40.43	0.257	0.5		
			19287	40.43-42.43	0.567	0.9		
			19288	42.43-44.43	0.481	0.6		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
45-50	99	GGR - As above. N.C. v.f.g. specs disseminated within matrix visible. Malachite staining on all fractures. Core moderately magnetic. Calcite content subtle. Epidotized interval. Cc or specular hematite?? Rock competent, with fractures at 0.5 spacing (40°), most healed and stained with malachite + calcite+epidote. Expect ~ 1% Cu.	19289	44.43-46.43	0.79	0.9		
			19290	46.43-48.43	0.893	2.1		
			19291	48.43-50.43	0.717	2.1		
50-56	99	GGR- as above. Calcite veins common and associated with fractures. Epidote flooding (alteration, esp. to F.G. sections). Core moderately magnetic. Disseminated CC+Bn increasing. Rock fractures at 0.3 spacings (60°); calcite + grenokite healed. Malachite staining common on fractures and calcite veins. Lim occasional. CC becoming more and more apparent. Bn disseminated v.f.g. ? CC dissemination v.f.g., both within matrix and clasts. Expect still in 1% Cu zone. Grade will increase down section.	19292	50.43-52.43	1.64	2.7		
			19293	52.43-54.43	1.39	9.6		
			19294	54.43-56.43	2.74	11.8		
56-62	95	GGR - as above, with more red in matrix (hematite?). Well epidotized and altered. CC+Bn disseminated but in lower amounts than above. (small lower grade interstitial zone). Cc+Bn V.F.G. specs. Core weakly to non magnetic. Calcite content of matrix subtle. CPY noted at 60.1-60.2 as blebs and disseminations. CC present in first 1.5 m, then quickly dies out. Rock is fractured at 0.2 spacing (65°); cal+lim healings. Malachite stains present on all fractures. Vertical fractures at 56.3-56.5, 56.8-57.4, 60.6-60.75, 61.5-61.7. Expect grade 0.5% cu.	19295	56.43-58.43	3.66	8.2		
			19296	58.43-60.43	3.26	7.8		
			19297	60.43-62.43	0.022	0.7		
62-67	98	GGR - As above. Calcite content subtle. Rock is variably magnetic (non-moderate). Fractures coated and healed with lim. CC+Bn disseminated f.g. within matrix and clasts. Py noted as fine dissemination throughout (possible f.g. CPY too). Rock ~ competent, with fractures at 0.3 spacing (40°); healed with cal+lim to non-healed. CC+bn occasional. Appear to have passed through main mineralized zone into footwall. Expect low grade interval (0.2-0.4% Cu).	19298	62.43-64.43	0.014	<0.5		
			19299	64.43-66.43	0.011	<0.5		
			19301	66.43-68.43	0.011	0.8		
67-72	98	GGR -as above. Well fractured, with 0,25 spacing 970°. CPY blebs and disseminations within 68.1-68.9. 70.5 grenokite associated with CPY disseminations. Rare malachite on fractures. Epidote altered interval. Calcite content of matrix moderate. Rock, non to weakly magnetic. Open texture @ massive CPY zone with grenokite (68.3-68.6). Expect max grade to 0.5% Cu.	19302	68.43-70.43	0.307	3.4		
			19303	70.43-72.43	0.127	1.1		
			19304	72.43-74.43	0.013	3.5		
72-76.22	98	GGR - As above. Epidote flooded and altered. Rock fractured at 0.3 spacing (50°); dominantly unhealed. Calcite content variable. Core variably magnetic (weak to moderate). Expect no grade.	19305	74.43-76.22	0.012	16.2		

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT			Hole No.: DSR-37			
Inclination: -90°		Azimuth:		Total Depth: 82.32 m		
Northing: 50220.36		Easting: 50786.21		Logged By: Paul D. Gray		
Collar Elev. (Ft): 6140.291		Core Size: NQ		Contractor: Britton Bros.		
				Date(s) Drilled: 18-Aug-02		
Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)
0-9	85	RRG- Matrix supported (60%). Clasts subrounded to angular. Agglomerate of various volcanic rocks. Graded bedding. Epidote alteration of matrix evident. Calcite vein @ 5.9 -6.0 7.5 -77.7 (vertical with conjugate fractures @90°). Moderate calcite content within matrix. Fractures 0.35 spacing (60°); vertical from 3.1-3.6. Closed texture. Core weakly magnetic. No significant mineralization.				
9-15	98	RRG- As above. Calcite moderate within matrix. Variably magnetic (weak to moderate). Graded bedding (10 cm scale). F.G. zones more epidote altered. Bedding at 20° to core axis. Calcite veinlets vertical @ 13.5-14.5. Rock competent, with Fractures at 0.4 spacing (25°); unhealed. No significant mineralization.				
15-20	100	RRG - As above. Calcite content moderate within matrix and as clasts. Variably magnetic (non-moderate matrix, clasts magnetic). Rock competent with fractures at 0.4 spacing (40°); unhealed. 1 rare N.C. spec within calcite vein @ 18.3. 16-20 heavily epidote altered and flooded. No significant mineralization.				
20-26	100	GGR - Transition to well epidotized matrix of above (>10% Red clasts). 65% matrix supported agglomerate. Calcite content of matrix moderate. Vertical veinlets of calcite. Good competent rock, with fractures at 1.0 metre intervals (55°); healed and unhealed. Core moderately magnetic. Disseminated magnetite noted as occasional. Well epidotized (altered and flooded). No significant mineralization.				
26-32	100	GGR - As above. Epidote flooded and altered. Calcite content moderate. Rock moderately magnetic. F.g. graded bed units as above. Good competent rock, with fractures at 0.85 spacing (40°); healed with cal+lim as above. Vertical calcite veinlet at 27.65-28. No significant mineralization.	19306	30.49-32.49	0.082	4
			19307	32.49-34.49	0.189	6.1
			19308	34.49-36.49	0.369	3.8
32-38	100	GGR - As above. Epidote flooded and altered. N.C. as fine grained disseminations within the matrix and clasts (esp. red clasts) @ 32.6-32.9, 33.9-34.3. Calcite content subtle. Rock moderately magnetic. Competent rock, with fractures at 1.5 m spacing unhealed). 34-38 v.f.g. disseminated specs of CC. N.C. occasional to common. Expect low grade over interval >0.5%	19309	36.49-38.49	0.782	7.8
			19310	38.49-40.49	0.671	13.5
			19311	40.49-42.49	0.56	1
38-44	100	GGR- As above. N.C. disseminated as f.g. specs (to 1 mm occasionally to common). Disseminated CC+Bn v.f.g. and increasing. Calcite content moderate. Core moderately magnetic. Rock competent, with fractures at 0.45 spacing (40°); unhealed and fresh. 41 azurite and malachite + N.C. N.C. + grenokite on 1 fracture surface. N.C. concentrated within red clasts. Epidote flooded zone. Expect 0.5-1% Cu.	19312	42.49-44.49	1.89	3.1
			19313	44.49-46.49	0.522	2.5
			19314	46.49-48.49	0.82	2.7

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
44-50	100	GGR- As above. Calcite matrix content moderate. Rock variably magnetic (non-moderate). Disseminated N.C. throughout as f.g. disseminated specs. CC+Bn disseminated within matrix and as clasts (replacements). Plus specular hematite and magnetite as f.g. disseminations. Rock fractured at 0.35 spacing (60°); healed with cal+lim +mal/azurite on most fractures. Azurite also within matrix as stringers. Expect grade 0.5-1% Cu.	19315	48.49-50.49	0.366	1.6		
			19316	50.49-52.49	0.55	1.7		
			19317	52.49-54.49	1.1	2.1		
50-55	100	GGR - As above. Blebs of disseminated N.C. continue plus disseminated CC+Bn increase. Calcite content of matrix moderate. Core is variably magnetic. (weak to moderate down section). Fractures at 0.5 spacing (20°). 53.4-53.8 well fractured zone (calcite veinlet related) Epidote flooded and altered. Graded bedding continuous. F.G. zones more susceptible to epidotization. Expect higher grade than above, > 1% Cu.	19318	54.49-56.49	0.657	1.8		
			19319	56.49-58.49	4.1	8.6		
			19321	58.49-60.49	3.22	14		
55-61	100	GGR- As above. Calcite moderate to heavy within matrix. Core variably magnetic (non-moderate). Epidote flooded and altered. Rock competent, with fractures at 0.8 spacing (45°); malachite staining on most cal+lim fractures. Vertical fractures 53.54-55.67. Grenokite on fractures at 59.8-60.85. malachite on fractures at 57-58.2 CC+Bn f.g. disseminated throughout (matrix and clasts). Stringers and veinlets of CC+bn running through. High grade expected >2% Cu.	19322	60.49-62.49	2.81	6.9		
			19323	62.49-64.49	2	5.7		
			19324	64.49-66.49	2.42	7.6		
61-67	100	GGR - As above. Epidote altered and flooded. Calcite strong within matrix. Rock non to weakly magnetic. Fractures @ 0.4 spacing (60°), healed with calcite+limonite. Vertical fractures at 65.61-66.3 - calcite vein related (with malachite stains). CC + bn disseminations throughout matrix, less quantities than above. Vertical to subvertical calcite veins 64-67. CC f.g. as disseminated specs, rare as veinlets/stringers. Expect ~ 1% Cu.	19325	66.49-68.49	0.117	0.5		
			19326	68.49-70.49	0.015	<0.5		
			19327	70.49-72.49	0.014	<0.5		
67-73	95	GGR - As above. Epidote flooded and altered. Lack of sulphides - trace to rare. Calcite subtle to moderate within matrix. Moderately magnetic. Rock fractured at 0.35 spacing (40°); healed and associated with calcite veins (esp. 70.18-71). Sulphides - gouge with calcite vein. Minor CC+Bn 67-68 rare - 73. Gouge zone interestingly may have grade (soil alteration to clay?). Expect low grade (0.2-0.5% Cu).	19328	72.49-74.49	0.012	<0.5		
			19329	74.49-76.49	0.011	<0.5		
			19330	76.49-78.49	0.114	<0.5		
73-79	98	GGR - As above Calcite veins common (veinlets). Calcite subtle within matrix. Rock moderately magnetic. No noted sulphides. Rock fractured @ 0.2 spacing (45°); most healed and associated with calcite veinlets. Graded bedding indications. Bad drilling last 2.5-3 m. Epidote flooded and altered. Expect no grade, 0.01-0.1% Cu.	19331	78.49-80.49	0.012	<0.5		
			19332	80.49-82.32	0.017	<0.5		
79-82.32	100	GGR - As above. Epidote altered pervasively. Graded bedding indications. Single calcite veinlet at vertical fracture. Fractured a 1 m spacing (25°); unhealed. No sulphides noted. Expect no grade.						
		NOTES: Twin of hole SU-108 Assay 100-270 (like 108) and compare for grade. Grenokite disseminated with high grade. CC+Bn main mineralizer - stringer of metal H.G. indicator. More azurite than ever seen.						

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT				Hole No.: DSR-38			
Inclination: -90°		Azimuth:		Total Depth: 51.83 m		Logged By: Paul D. Gray	
Northing: 50270.99		Easting: 50685.99		Contractor: Britton Bros.		Date(s) Drilled: 18-Aug-02	
Collar Elev. (Ft): 6092.548		Core Size: BGM					
Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)	
0-9	80	RRG – subrounded to angular clasts within 65% matrix supported agglomerate. Dirty gray red matrix. Epidote altered. Calcite content subtle but present. Core magnetic. 0-6 blocky fractured and milled looking (0-3). Calcite veinlets and clasts present. Epidote flooded 6.2-8.8, altered and flooded. Earthy fracture fillings at fractures 0.2 spaced (45°); healed to non (with lim+cal). Clasts average 1 cm. Closed texture. No significant mineralization.					
9-16	99	RRG – GGR (13.8-16). Transition zone. RRG – AS above. Core magnetic, calcite moderate within matrix. Fractures at 0.45 spacing (60°). Vertical fractures at 11-11.25, 14.9-15. Minor graded bedding sequences. Epidote flooded and altered at 9.7 – 10.2. GGR – Agglomerate, 60% matrix supported, clast avg. ~ 1cm (rounded to angular). Rare disseminated CC and rare disseminated N.C. as v.f.g. specs. No significant mineralization.	19333	9.42-11.42	0.03	<0.5	
			19334	11.42-13.42	0.047	<0.5	
			19335	13.42-15.42	0.074	<0.5	
16-21	99	GGR – As above. Calcite content moderate. Rock moderately magnetic (less so down interval). Fractures at 0.35 spacing (60°); unhealed to healed (with cal+lim). Vertical fractures at 17.9-18.3. CC disseminated as v.f.g. specs within matrix. Epidote altered and flooded. N.C. disseminated as f.g. specs within matrix and clasts, with an affinity for reddened zones. Expect low grade 0.3-0.5% Cu.	19336	15.42-17.42	0.094	<0.5	
			19337	17.42-19.42	0.155	<0.5	
			19338	19.42-21.42	0.419	0.6	
21-27	100	GGR – As above. Cc finely disseminated throughout matrix and clasts. Calcite within matrix. Rock weakly to moderately magnetic. Specular hematite and magnetite throughout as well. Graded beds on 5 – 10 cm scale. Rock is competent, with fractures at 0.4 spacing (30°); unhealed. Disseminated sulphides present, but not in great concentrations. Rare N.C. Expect 0.3 – 0.8%	19339	21.42-23.42	0.361	0.5	
			19341	23.42-25.42	1.47	1.5	
			19342	25.42-27.42	0.73	0.8	
27-33	98	GGR – as above. Higher grade zone. CC increasing. Calcite content moderate. Rock weakly non-magnetic. Malachite staining on Cal+Lim healed fracture at 31.69 – 31.79. Fractures At 0.6 spacing (25°). High grade 27.5-33. Epidote flooded and altered. Occasional calcite veinlets at high angles to core axis. 32 – stringer of cc. Bn+CC v.f.g. disseminations (stringers toward end of interval). Expect 1-2% Cu.	19343	27.42-29.42	2.38	3.7	
			19344	29.42-31.42	0.633	3.4	
			19345	31.42-33.42	0.625	2.1	
33-39	100	GGR – As above. Calcite content within matrix. Weakly magnetic core. Competent rock, with fractures at 0.35 spacing (50°); most healed with mal+cal+lim). Calcite veinlets throughout, mineralization and fracture related. Stringer and blebs of CC+Bn. CC+Bn disseminated within matrix and clasts. Epidote alteration evident, and mineralization related. Expect >1% Cu.	19346	33.42-35.42	0.429	1.6	
			19347	35.42-37.42	0.589	1.9	
			19348	37.42-39.42	2.34	6.2	

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
39-44	100	GGR – As above. Calcite content moderate. Rock weakly to moderately magnetic. Malachite staining within matrix (41.5-42, 43.7). Disseminated sulphides within matrix and clasts (CC+Bn). Rock is competent, with fractures at 0.4 (55°); healed with cal+lim+mal. Epidote flooded and altered. Vertical fractures at 41.85-42.2. CC disseminated and as blebs 43-44. Expect high grade section ~2% Cu.	19349	39.42-41.42	1.8	3.2		
			19350	41.42-43.42	2.23	6.1		
			19351	43.42-45.42	2.28	5.5		
44-50	100	GGR – As above. CPY disseminated as dominant metal (44-45.8). Open texture brown alteration with mal and Cpy 45. Calcite within matrix Rock non to weakly magnetic. Grenokite within interval. Fractures at 0.25 spacing (55°); healed with cal+lim+mal. Malachite within matrix throughout interval, esp. 47.8 – 48, Expect ~1% Cu.	19352	45.42-47.42	0.118	<0.5		
			19353	47.42-49.42	1.15	3.9		
			19354	49.42-51.83	0.788	3		
50-51.83	100	GGR – AS above. Epidote flooded. Non magnetic. Calcite-epidote vein 49.8-50.4. Vertical fractures with mal at 50.8-50.9. Disseminated cc+bn in limited amounts. Passed through high grade zone. Py disseminated throughout. Minor Cpy within interval. Expect >1% Cu.						
		Notes:						
		Lost hole 51.83 – cave in Expect high grade hole – near surface. Starter Pit? Test mineralization toward cliff. It is there. CC + Bn main mineralizers plus N.C. near top. CPY to Py in footwall.						

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT	Hole No.: DSR-39
Inclination: -90°	Total Depth: 45.73 m
Northing: 50331.75	Logged By: Paul D. Gray
Collar Elev. (Ft): 6063.479	Contractor: Britton Bros.
Azimuth:	Date(s) Drilled: 18-Aug-02
Easting: 50476.78	
Core Size: BGM	

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-9	82	GGR - variable sized, subrounded to angular clasts (~1cm, max to 4 cm). Agglomerate. Moderate calcite within matrix and as clasts. Occasional calcite veinlets (associated with fractures and at high angles to core axis). Rock fractured at, 0.2 spacing (55°), healed and unhealed. Vertical fractures at 5.10-5.25, 6.5-6.7, 7.6-7.7, 3.8-4.5. Calcite veinlet related. F.G. CC noted late in interval. Core moderately magnetic. CC v.f.g. - f.g disseminations. F,G, N.C. disseminated within matrix and clast 8-9. Epidote flooded and altered. Expect low grade 0.2-0.3% Cu	19355	0-3.05	0.094	<0.5		
			19356	3.05-5.05	0.1	<0.5		
			19357	5.05-7.05	1.31	2.7		
9-15	100	GGR - As above. Clasts ~ 1cm and more rounded. Still Agglomerate. Calcite content moderate within matrix. Core moderately magnetic. Rock is competent, with fractures at 0.4 spacing (45°). CC disseminated within matrix, F.G. to c.g. where blebed. Trace native copper as f.g. specs within matrix. CC is the main mineralizer. Malachite on fractures at 13.9-14.1, 14.9. Expect 0.5 - 1% Cu.	19358	7.05-9.05	0.443	0.9		
			19359	9.05-11.05	0.443	0.8		
			19361	11.05-13.05	0.52	1.2		
15-21	100	GGR - As above. Increased N.C. as f.g. disseminations to blebs (2 mm) at 18.2-18.4. Calcite content to matrix. Rock weakly to moderately magnetic (weak late in interval). Fractured at 0.3 spacing (65°). Vertical fractures at 15.35 - 15.46, 15.79-15.92, 16.5-16.92, 19. Malachite pervasive on Cal+lim healed fractures. N.C. as f.g. disseminations. CC minorly disseminated as v.f.g. Native copper main mineralizer 20-21. Epidote flooded and altered. Expect >1% Cu	19362	13.05-15.05	0.726	3.9		
			19363	15.05-17.05	1.14	4.3		
			19364	17.05-19.05	0.563	2.7		
21-27	90	GGR - as above. Fractures at 0.25 spacing (40°), healed with calcite+lim+mal. Malachite at 21.35. N.C. f.g. disseminated as specs 21.4-21.7. Calcite content moderate. Rock is moderately magnetic. 25-25.6 epidote flooded and altered, broken and fractured with malachite staining. CC+Bn disseminated as v.f.g.s. N.C. common. Expect grade >1% Cu.	19365	19.05-21.05	0.23	1.2		
			19366	21.05-23.05	0.533	1.4		
			19367	23.05-25.05	0.77	2		
27-33	90	GGR - As above. Well fractured and broken core to 30, and again at 31-33. Fractures at 0.1 spacing at all angles. Malachite staining prominent. Calcite and lim associated with fractures. Calcite content sub moderate. Rock variably magnetic (weak to moderate). Epidote flooded and altered. Within the broke zone above, cc+bn as f.g. disseminations throughout. Expect medium grade >1% Cu. Epidote altered and flooded. Fractured zone. Expect grade 0.5% Cu.	19368	25.05-27.05	0.269	1.3		
			19369	27.05-29.05	0.755	3.1		
			19370	29.05-31.05	0.532	2.7		
33-39	98	GGR-As above. Well fractured and broken zone with fractures at < 0.1 spacing at all angles (40°), lim+cal+mal+grenokite healing on most fractures. Vertical cross-cutting fractures throughout. CC+Bn finely disseminated within matrix, rims, and in clasts. Calcite veinlets associated with fractures. Epidote flooding pervasive. Brown gougey alteration with calcite veining 35 and on. F.G. py enters the system, disseminated as v.f.g. within the matrix (35-39). CPY possibly 35-37, 37-39. Brown gouge increase down interval to zone of no competency. Expect 0.2% Cu	19371	31.05-33.05	0.22	1.7		
			19372	33.05-35.05	1.84	3.4		
			19373	35.05-37.05	0.276	1.6		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
39-45.73	95	GGR - As above. Py disseminations evident as fine disseminations throughout. Brown gouge zones continue (associated with calcite) – open texture with the gougey brown zone 39-40. Epidote flooding and alteration of matrix. Calcite content subtle, expect open texture zones (cal rich). Non to weakly magnetic. Passed through mineralized horizon into footwall. Rock fractured at <0.1 (40°). Expect no grade.	19374	37.05-39.05	0.011	<0.5		
			19375	39.05-41.05	0.011	<0.5		
			19376	41.05-43.05	0.013	<0.5		
			19377	43.05-45.73	0.012	<0.5		
		Notes:						
		Mineralized Horizon begins at surface. Assay entire hole.						
		Filled in section and indicates mineralization exists.						
		Rock at bottom of hole, broken and fractured. Proximal to cliff?						
		Hole begins in CC+bn mineralization.						
		Proved presence of mineralized horizon						
		Hole penetrated and passed through mineral horizon.						

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT				Hole No.: DSR-40			
Inclination: -50°		Azimuth: 040°		Total Depth: 45.73 m		Logged By: Paul D. Gray	
Northing: 50334.39		Easting: 50478.69				Contractor: Britton Bros.	
Collar Elev. (Ft): 6064.611		Core Size: BGM				Date(s) Drilled: 19-Aug-02	
Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)	
0-8	80	GGR - >10% Red clasts. Various sized clasts (avg ~1cm) of varied parentage within a 70% matrix supported agglomerate. Epidote altered. Calcite within matrix (moderate). Core magnetic. 0-3.05 broken and rubbly (pebble conglomerate). 3-6.1 fractured at 0.25 (50°) healed with cal+lim+mal. 6- 8 competent rock with infrequent fractures. Disseminated cc+bn noted as f.g. specs within matrix. Late in interval (6-8) increased sulphides disseminations. Epidote flooded. Expect low grade >0.5% Cu.	19378	0-3.05	0.139	<0.5	
			19379	3.05-5.05	0.112	<0.5	
			19381	5.05-7.05	0.32	1.1	
8-13	99	GGR - As above. Max clast to 25 cm. CC+BN disseminated throughout matrix and within. N.C. f.g. disseminations noted throughout section within matrix and clasts, specs to rare blebs. Epidote flooded and altered. Calcite content moderate. Rock weakly to moderate magnetic. CC+Bn fine grained to v.f.g. and ubiquitous. Fractures at 0.35 spacing (40°), dominantly unhealed. Grenokite on single fracture. Expect ~ 1% Cu grade over the interval.	19382	7.05-9.05	1.11	2.1	
			19383	9.05-11.05	1.14	1.1	
			19384	11.05-13.05	1.68	1.5	
13-19	98	GGR - As above with graded bedding intersections. N.C. disseminated throughout, concentrated in pockets within red zones. CC+Bn f.g. disseminations ubiquitous. Fractures at 0.3 spacing (45°); healed with calcite + lim+mal+grenokite. Calcite content moderate to subtle. Rock moderately magnetic. Epidote flooded and altered. Calcite veinlets rare. Expect ~ 1% Cu over interval.	19385	13.05-15.05	0.749	1.5	
			19386	15.05-17.05	1.45	3.6	
			19387	17.05-19.05	1.82	3	
19-25	99	GGR - AS above. N.C. f.g. disseminated (affinity for red zones) still around, but less abundant, decreasing down interval. F.G. disseminated CC+Bn common 19-22, lessens down interval. Malachite minor on fractures, most fractures unhealed. Fractures at 0.3 spacing (50°). Epidote altered. Core variably magnetic (moderate to weak). Calcite content moderate CC+Bn disseminated as f.g. specs throughout the matrix. N.C. same. Expect medium grade over interval 0.5% Cu.	19388	19.05-21.05	0.839	2.9	
			19389	21.05-23.05	0.486	2.8	
			19390	23.05-25.05	0.253	1.5	
25-31	98	GGR - As above. CC+Bn f.g. disseminations within epidote altered zones. Lower content % down section. Some H.G. Bn+CC sections 28-30. F.G. disseminations throughout matrix. N.C. less than previous. Calcite content moderate. Variably magnetic core, non-moderate. Fractures at 0.25 spacing (45°), healed with cal+lim+mal. Expect still in High Grade zone >1% Cu.	19391	25.05-27.05	0.79	1.8	
			19392	27.05-29.05	4.73	13	
			19393	29.05-31.05	1.41	3.9	
31-37	99	GGR - As above. Transition zone from H.G. to low grade. Py after CPY 34-37. Epidote altered zones contain finely disseminated py throughout matrix. 34 CPY weakly disseminated CC+Bn 31-34. H.G. to Medium grade. Epidote altered zone. Variably magnetic (non-moderate). Fractures at 0.4 spacing (30°), healed with cal+lim. Gren+mal 31-34. High grade zone 31-34. Medium grade to low grade 34-37. Expect 0.5% Cu over interval.	19394	31.05-33.05	3.44	12.9	
			19395	33.05-35.05	1.26	3.6	
			19396	35.05-37.05	0.322	0.8	

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
37-42	98	GGR- As above. Epidote altered zone with Py disseminated throughout as f.g. specs. Moderately magnetic. Calcite content strong. Fractures at 0.25 spacing (55°), healed and unhealed. Cal+lim dominant healers. Vertical fracture at 40.8-41.5. Py only metal disseminations, no CC+Bn. No malachite noted. Passed through H.G. zone into footwall. Epidote flooded and altered. Expect low grade 0.1-0.3% Cu.	19397	37.05-39.05	0.036	<0.5		
			19398	39.05-41.05	0.013	<0.5		
			19399	41.05-43.05	0.012	<0.5		
42-45.73	97	GGR - As above. Py disseminations ubiquitous. No Cu minerals. Epidote altered. Fractures at 0.35 spacing (45°), healed with calcite +limonite. Expect no grade to 0.1% Cu.	19401	43.05-45.23	0.018	0.5		
		NOTES:						
		Near surface mineralization. H.G. CC+Bn within early intervals.						
		Well developed mineral zones CC+Bn to Cpy to Py						
		Extended Py zone into footwall, expect no grade.						
		Rock is competent vs. the 90° DSR-39						
		N.C. content high pre-H.G. and through H.G. Zone.						
		Sharp contact with mineralized footwall.						
		The hole intersected the expected mineralization. ~1% hole						

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT	Hole No.: DSR-41
Inclination: -90° Azimuth: Total Depth: 53.35m	Logged By: Paul D. Gray
Northing: 50241.44 Easting: 50374.19	Contractor: Britton Bros.
Collar Elev. (Ft): 6029.278 Core Size: BGM	Date(s) Drilled: 19-Aug-02

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-8	50	GG - Clasts sub to rounded. 65% matrix supported pebble conglomerate. 0-6 very broken and rubblely. 0-3 overburden. Epidote flooded and altered rock. Fractures and breaks at 0.05-0.1 spacing at all angles. Calcite veining prominent and associated with fractures? Calcite content variable. Rock is non to weakly magnetic. 7.5-8, brown earthy gouge altered matrix (rims of clasts). Hard, but looks soft. Sulphides within matrix (CC?). Possible specular hematite. Closed texture where unaltered. Estimate no grade to 0.2% Cu.	19402	0-3.05	0.105	<0.5		
			19403	3.05-6.1	0.024	<0.5		
			19404	6.1-8.1	0.013	<0.5		
8-13	90	GG - As above. 8-13 almost entirely the above described brown alteration. Clasts relatively unaltered. Calcite content subtle. Rock is well fractured via alteration, at 0.1 spacing (50°). Matrix pervasively altered to brown, but not clasts. Specular hematite and CC noted. Closed texture where unaltered. Expect no to low grade, max 0.2% Cu.	19405	8.1-10.1	0.01	<0.5		
			19406	10.1-12.1	0.009	<0.5		
			19407	12.1-14.1	0.01	<0.5		
13-19	99	GG - as Above. Brown alteration to 16.4. Unaltered zones contain cc+bn as f.g. disseminations and malachite on fractures. Difficult to estimate CC+Bn content of altered zone (1-2% Cu?). CC+Bn disseminated as f.g. specs within matrix and clasts. Fractures common at 0.2 spacing (60°). Calcite content of altered zones weak, unaltered strong. 16.4-18.4 unaltered. Rock non-magnetic. 16.4-16.8 Cpy disseminated to Blebs with grenokite and malachite. Expect ~ 1% Cu over interval.	19408	14.1-16.1	0.013	<0.5		
			19409	16.1-18.1	3.1	6.8		
			19410	18.1-20.1	0.043	<0.5		
19-24	98	GG - As above. Dominantly unaltered GG (epidote) with 1 section @ 22.7-23.3 of brown alteration as above. Fractures at 0.15 spacing (55°), healed with Cal+lim as above. CC+Bn disseminated within matrix and clasts as f.g. specs. 23-24 CPY noted as f.g. disseminated specs with the Bn+CC. The brown altered zone appears gritty and f.g. (tuff?). Unaltered zone less fractured than altered zones. Calcite content within matrix strong. Variably magnetic (non-mod). Stringers of CPY with the calcite veinlets. Expect > 1% Cu.	19411	20.1-22.1	0.048	<0.5		
			19412	22.1-24.1	0.012	<0.5		
			19413	24.1-26.1	0.011	<0.5		
24-30	95	GG -As above. Fractured zones with minor brown alteration, dominantly unaltered GG Agglomerate. Fractures at 0.3 spacing, increasing with brown alteration zones, (040). CC+Bn disseminated within matrix, but variable concentrations (none within alteration zone). CPY widely disseminated as f.g. specs within matrix. CPY gives way to Py by end of the interval (29.5-30). Calcite content moderate. Epidote alteration throughout. Expect < 1% Cu.	19414	26.1-28.1	0.011	<0.5		
			19415	28.1-30.1	0.01	<0.5		
			19416	30.1-32.1	0.01	<0.5		
30-36	95	GG - As above, with many brown altered zones. Rarely unaltered, where unaltered, py disseminated ubiquitously. Within the altered zones, no sulphides noted. Possible CC within unaltered zones (possible Specular hematite). Rock non-magnetic. Where unaltered strong calcite content, where altered, weak. Fractures at 0.25 spacing (30°). Vertical fractures at 30-31.5. Expect low grade over interval 0.3% Cu.	19417	32.1-34.1	0.013	<0.5		
			19418	34.1-36.1	0.01	<0.5		
			19419	36.1-38.1	0.01	<0.5		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
36-41	98	GG - As above. Transition type between unaltered and brown altered matrix. Epidote altered and fractured at 0.2 spacing (65°). Vertical fractures 38-41, with slickensided calcite and limonite. Down interval the alteration is less evident. Py disseminated throughout as f.g. specs within matrix. Calcite content strong. Rock weakly to moderately magnetic. Expect no grade.	19421	38.1-40.1	0.013	<0.5		
			19422	40.1-42.1	0.01	<0.5		
			19423	42.1-44.1	0.012	<0.5		
41-47	100	GG - As above, but good competent unaltered rock. Fractures at 0.3 spacing (25°), unhealed. Epidote flooded and altered. Py as f.g. disseminations throughout matrix. Calcite content moderate, rock moderately magnetic. Possible f.g. disseminated CC+bn. Expect grade 0.2-0.4% Cu. Low grade.	19424	44.1-46.1	0.011	<0.5		
			19425	46.1-48.1	0.01	<0.5		
			19426	48.1-50.1	0.01	<0.5		
47-53.35	98	GG -As above. Moving into another brown altered zone. Py disseminated throughout. No other sulphides noted. Rock non to moderately magnetic. Calcite content moderate. Rock is fractured at 0.15 spacing (65°). Vertical fractures at 48.5-50.83, cal+lim healed. Expect no grade over interval.	19427	50.1-52.1	0.013	<0.5		
			19495	52.1-53.35	0.012	<0.5		
		NOTES:						
		Unusual hole; more matrix alteration than any other hole (even at depth) Appears to be calcite related alteration (flooding?); no does not effervesce.						
		The alerted zones are baked clean of all sulphides. Perhaps an anomalous zone within deposit?						
		Bn+CC+CPY near surface in High grade zone. Epidote flooding throughout.						

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Core Log Data Sheet

Project: SUSTUT				Hole No.: DSR-42			
Inclination: -90°		Azimuth:		Total Depth: 48.78 m		Logged By: Paul D. Gray	
Northing: 50410.57		Easting: 50384.95				Contractor: Britton Bros.	
Collar Elev. (Ft): 6081.074		Core Size: BGM				Date(s) Drilled: 19-Aug-02	
Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)	
0-8	85	GGR – Epidote altered. Various clast sizes (avg >1 cm, max to 4 cm). Matrix supported (70). Clasts sub-rounded to subangular. Agglomerate. Fractures at 0.2 spacing (35°); unhealed. Fine calcite veinlets at high angles to core axis. Calcite content strong to moderate. Rock is moderately magnetic. No sulphide mineralization noted. Epidote alteration evident. Possible specular hematite +/- magnetite disseminated as v.f.g. specs within core. Graded bedding indications. >10% red clasts. Closed texture. Expect no grade Cu (max 0.1-0.2% Cu).	19428	0-3.05	0.043	<0.5	
			19429	3.05-5.05	0.059	<0.5	
			19430	5.05-7.05	0.266	<0.5	
8-13	95	GGR – As above. Competent rock, with fractures at 0.3 spacing (45°); healed and unhealed (cal+lim+mal where healed). 19.5 and on, malachite common on fractures. Calcite strong within matrix. Rock magnetic (moderate to weak down interval). Vertical fractures at 10.15-10.4 (mal+cal+lim). CC as f.g. disseminated specs within matrix and clasts, disseminated throughout, and increasing in size and content down interval. Rock bn with the cc (v.f.g.). Reddish hint to core (hematite?). Epidote altered. Expect 0.5 % Cu over interval, increasing down interval.	19431	7.05-9.05	2.81	6.7	
			19432	9.05-11.05	5.14	14.5	
			19433	11.05-13.05	3.81	10.1	
13-19	100	GGR- As above. Competent rock, with fractures 0.4 spacing (25°); vertical fractures at 18.1-18.3). CC+Bn disseminated throughout. Tuff zone (f.g.) 16-16.8, with extensive CC+Bn disseminations within the tuff matrix. Calcite content strong to moderate. CC+Bn pervasive mineralizers throughout. Occasional calcite veinlets. Epidote altered throughout. Rock non-weakly magnetic. Expect 1-1.5% Cu over interval.	19434	13.05-15.05	1.48	1.6	
			19435	15.05-17.05	3.42	1.7	
			19436	17.05-19.05	2.34	2.2	
19-25	100	GGR – As above. Rock is ~ competent, with fractures at 0.35 spacing (55°); vertical fractures 23-24, most healed with Cal+lim. Bn+CC continue as f.g. disseminations, with minor clast replacement. Trace to rare N.C. as f.g. specs within matrix. Dominant mineralization is CC+bn. Calcite content moderate – strong. Rock is moderately magnetic. Epidote altered zone. Expect grade ~ 1% Cu.	19437	19.05-21.05	1.25	2.4	
			19438	21.05-23.05	0.399	2.1	
			19439	23.05-25.05	0.742	3.8	
25-31	100	GGR – As above. Rock is competent, with fractures at 0.4 spacing (25°); dominantly unhealed. Calcite is moderate to strong within matrix. Moderately magnetic core. F.G. tuff horizons within section (26.5-28), with associated heavy mineralization of sulphides. Sulphides are CC+Bn, as f.g. disseminations within matrix. Epidote flooded and altered. Patchy blebs of CPY with grenokite noted. Expect <1% Cu over interval.	19441	25.05-27.05	0.676	2.7	
			19442	27.05-29.05	0.64	1.6	
			19443	29.05-31.05	3.7	12.5	
31-37	100	GGR – As above. Grenokite 31.6. Competent rock, with fractures at 0.5 spacing (20°), 1 healed with lim+cal_mal. Calcite string. Moderately to weakly magnetic core. CC+Bn dominant mineralization within core, as f.g. disseminated specs within matrix. CC+Bn content lessening down section. 36-37 decreasing sulphide content. Malachite on fracture at 36.9. Epidote alteration throughout. Above 36 good grade expect (~1%), below 0.5% Cu.	19444	31.05-33.05	3.37	11.3	
			19445	33.05-35.05	2.71	4.4	
			19446	35.05-37.05	4.19	12.2	

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
37-42	100	GG - Red clasts out. Competent rock, with fractures at 0.45 spacing (35°); dominantly unhealed. Epidote flooded and altered. CC+Bn common to 37, 37-38 CPY dominant mineralization (as dissemination, stringers, and blebs). After 39.5 into PY at abrupt change. Calcite strong within matrix. Moderately to non magnetic down interval. Expect good grade 37-39 (0.5-1% Cu), low grade estimated for 39-42 (0.2% Cu).	19447	37.05-39.05	0.696	2.5		
			19448	39.05-41.05	0.016	<0.5		
			19449	41.05-43.05	0.012	<0.5		
42-48.78	100	GG - as above. Good competent rock, with fractures at 0.4 spacing (40°), dominantly unhealed. Dominantly weakly magnetic core throughout. Epidote altered and flooded. Calcite strong within matrix. Py disseminated throughout matrix. No CC+Bn noted. Expect no grade.	19450	43.05-45.05	0.014	<0.5		
			19451	45.05-47.05	0.013	<0.5		
			19452	47.05-48.78	0.013	<0.5		
		NOTES:						
		Twin of hole SU-32						
		Good twin - appears to correspond well with grade envelopes- perhaps this extended the mineralization a bit.						
		Sampled entire hole, and will compare with SU-32 on the 2 meter intervals.						
		Rock competent. Good quality and recovery.						
		CC+Bn dominant within main mineralized zone. Cpy late (with grenokite)						
		Py disseminated within footwall						

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Core Log Data Sheet

Project: SUSTUT			Hole No.: DSR-43			
Inclination: -90°	Azimuth:	Total Depth: 45.73 m	Logged By: Paul D. Gray			
Northing: 50486.85	Easting: 50411.03		Contractor: Britton Bros.			
Collar Elev. (Ft): 6099.423	Core Size: BGM		Date(s) Drilled: August 19-20, 2002			
Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)
0-7	90	GGR - >10% red clasts. Agglomerate. Clasts subrounded to angular (avg. 1 cm). 60% matrix supported. Closed texture. 0.3-3.5 fractured at 0.1 spacing or less (48°). 3.5 - 7 solid rock with 1 meter average spacing at low angles to core axis. Epidote alteration throughout (pervasive). Graded bedding indications. Calcite strong within matrix. Rock is magnetic. Magnetite disseminated within the matrix, plus possible v.f.g. CC+Bn. Expect no to low grade (0.2-0.5%).	19453	0.95-2.95	0.075	<0.5
			19454	2.95-4.95	0.091	<0.5
			19455	4.95-6.95	0.313	<0.5
7-13	100	GGR - As above (RR 7-11). Epidote altered throughout. Calcite strong within matrix. Rock is weakly to moderately magnetic. Fractures at 0.35 spacing (30°); unhealed. CC+bn disseminated as f.g. specs within matrix, esp. within the RR zone. CPY disseminations and blebs at 11.5-12.2. Disseminated CC+Py to 13. Expect High grade zone 1-2% Cu.	19456	6.95-8.95	2.3	2.2
			19457	8.95-10.95	3.31	7.2
			19458	10.95-12.95	1.53	4.3
13-19	100	GGR - As above with similar RR zone 14-15.5 and 18-19. Calcite strong within matrix. Rock variably magnetic as above. CPY blebs and disseminations 13-14. Fractures at 0.3 spacing (50°). Malachite noted on fractures. CC+Bn disseminated throughout, with an affinity for RR zones. Limonite + malachite common on fractures. Epidote alteration pervasive. Minor grenokite within interval. Expect ~ 1% Cu over interval.	19459	12.95-14.95	1.87	5.1
			19461	14.95-16.95	4.61	14
			19462	16.95-18.95	3.26	16.3
19-25	99	GGR - As above. Graded bedding. Calcite content of matrix moderate to strong. Non to moderately magnetic core. 19-19.9 Grenokite+CC+Bn+Cpy disseminated. 20-20.8 (epidote altered f.g. zone). Fractures at 0.4 spacing (50°), with mal+lim+cal where healed. CC+Bn disseminated throughout with variable content. CPY+Py 19-20, 20-25. Epidote altered grenokite 19-20. Vertical fracture with malachite at 24.3-24.6 (calcite veinlet associated). Expect a 0.5 % Cu Grade.	19463	18.95-20.95	2.23	9.3
			19464	20.95-22.95	2.72	16.2
			19465	22.95-24.95	1.44	2.9
25-30	98	GGR - As above. Calcite within matrix moderate-strong. Non to weakly magnetic. Epidote altered. Fractures at 0.3 spacing (30°); healed and nonhealed with mal+cal on all healed fractures. CC+Bn disseminated throughout, losing quantity down interval, as f.g. specs within matrix and clasts. Malachite dominant on fractures. Expect max 1% Cu, but probably less - 0.5% Cu.	19466	24.95-26.95	0.333	1.5
			19467	26.95-28.95	0.232	1.2
			19468	28.95-30.95	1.27	3.3
30-36	100	GGR - As above. Epidote altered and flooded (esp. 34-36). CPY blebs and disseminations 32.7-33.5 with associated grenokite. CC+Bn 30-33. Fractures at 0.25 spacing (30°); most unhealed. Calcite strong to moderate within matrix. Rock is non-weakly magnetic. Minor open texture noted where epidote flooded and calcite rich (34-36). Vertical fractures 34.8-35.8. CC+Bn still around, but in less concentrations than above. Py disseminations noted throughout as F.G. specs. Expect 0.5% Cu over interval.	19469	30.95-32.95	1.24	3.6
			19470	32.95-34.95	0.014	<0.5
			19471	34.95-36.95	0.034	<0.5

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
36-42	100	GGR - As above. F.g. graded bed zones. CC+Bn even less than above, but present. Calcite strong. Rock non magnetic. F.g. disseminated sulphides noted within section. Epidote flooded and altered. Epidote vein at 40-42 and to 43.9. Open texture within epidote vein zone (with lim+cal throughout). Fractures at 0.25 spacing (55°). Rock appears siliceous and hard. Py continued disseminations throughout interval. Expect < 0.5% Cu.	19472	36.95-38.95	0.011	<0.5		
			19473	38.95-40.95	0.02	<0.5		
			19474	40.95-42.95	0.016	<0.5		
42-45.73	98	GGR - As above. Epidote vein continues to 44. Disseminated CC? Or magnetite noted to end of hole. Py disseminations v.f.g. throughout. Fractures at 0.15 spacing (65°), dominantly healed with cal+lim. Epidote flooded and altered. Calcite strong within matrix. Rock is non magnetic. Expect no to possibly low grade.	19475	42.95-44.95	0.019	<0.5		
			19476	44.95-45.73	0.03	<0.5		
		NOTES:						
		Short hole penetrates mineralization immediately - CC+Bn to CPY to CC+Bn to CPY to PY.						
		North end of pit, with near surface mineralization.						
		Continuity of mineralization toward previously untested cliff, confirmed.						
		Entire hole mineralized with sulphides. Assay entire hole						
		Two zones of mineralization interesting?						
		No native copper noted.						

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Core Log Data Sheet

Project: SUSTUT			Hole No.: DSR-44			
Inclination: -90°		Azimuth:	Total Depth: 45.73 m		Logged By: Paul D. Gray	
Northing: 50585.54		Easting: 50329.27	Contractor: Britton Bros.		Date(s) Drilled: 20-Aug-02	
Collar Elev. (Ft): 6123.068		Core Size: BGM				
Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)
0-7	85	GG - < 10% Red clasts. Agglomerate, sub-rounded to angular clasts within 75% matrix supported. Clasts average 0.7 cm of various parentage. Graded bedding (f.g.) zones noted. Closed texture. Calcite content of matrix strong. Rock magnetic. Epidote altered zone. Rock Competent, with fractures at 0.3 spacing (45°); healed dominantly with cal+lim. Calcite veinlets sub-common. Possible CC (more likely specular hematite/magnetite) disseminated as v.f.g. specs at low concentrations throughout. Vertical fractures at 6.23-6.5. Expect no grade ~ 0.10% Cu.	19477	0-3.05	0.107	<0.5
			19478	3.05-5.05	0.152	<0.5
			19479	5.05-7.05	0.438	1.9
7-13	98	GG - As above. Calcite content strong. Rock magnetic. Fractures at 0.35 spacing (55°); dominantly healed (cal+lim). Sulphides disseminated throughout, cc+bn as specs within matrix and clasts. Malachite on all fractures past 9 m. Near vertical fractures at 12.45-12.9, malachite present, plus calcite. Bn bleb within vein + cc as stringer. High grade concentrations of Cu (CC+Bn). Expect high grade zone ~2% Cu.	19481	7.05-9.05	0.291	2
			19482	9.05-11.05	3.56	5.1
			19483	11.05-13.05	1.3	3.4
13-19	95	GG - As above. Calcite content of matrix high. Disseminated sulphides evident (CC+Bn) throughout as f.g. specs within matrix and clasts. Epidote flooded zone with alteration. Rock is weakly to non magnetic, weaker down interval. Fractures at 0.1 spacing (65°); vertical fractures at 13-13.5, 15.4-15.6. Fractures usually healed with cal+lim. Brown alteration at 16-16.5 Cpy late in section. Expect 0.5-1% Cu.	19484	13.05-15.05	0.572	1.1
			19485	15.05-17.05	0.848	3.7
			19486	17.05-19.05	0.013	<0.5
19-25	97	GG - As above. Calcite content strong. Rock non-magnetic. Fractures at 0.15 spacing (70°); vertical fractures at 19-19.5, 20.2-20.5, 21.6-22.8. Brown alteration 21.64 - 22.1 Fractures dominantly healed with cal+lim. No malachite noted. Py disseminated as f.g. specs within matrix throughout. Epidote flooded and altered zone. CPY possible. Expect low grade > 0.5% Cu	19487	19.05-21.05	0.01	<0.5
			19488	21.05-23.05	0.013	<0.5
			19489	23.05-25.05	0.011	<0.5
25-30	92	GG- As above. Brown alteration zone 24.4-25.4. F.G. altered zone calcite high. Within matrix calcite content strong. Rock is variably magnetic (weak to non). F.G. graded bedding sections. Fractures common at 0.15 spacing (60°); dominantly healed with cal+lim. Minor cc+bn early. Py disseminated throughout. CPY suspected as sulphide early in interval. Heavily epidote flooded and altered. Expect low grade zone.	19490	25.05-27.05	0.013	<0.5
			19491	27.05-29.05	0.014	<0.5
			19492	29.05-31.05	0.011	<0.5
30-36	96	GG - As above. Calcite content of matrix moderate to strong. Rock is non magnetic. Heavy epidote alteration. Rock fractured at 0.1 spacing (65°); dominantly healed with cal+lim. Disseminated Py pervasive within the matrix as f.g. specs and blebs. Vertical fractures at 33.6-34.85. Rock bleached white-green. Expect no grade Cu %	19493	31.05-33.05	0.013	<0.5
			19494	33.05-35.21	0.011	<0.5

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
36-41	98	GG -As above. Bleached white-green with epidote alteration. Calcite content weak to non (all epidote). Rock is non magnetic. Fractures common, at 0.2 spacing (50°), dominantly healed with cal+lim. Py disseminated throughout as only sulphide mineral. Expect no grade.						
41-45.73	97	GG -As above with more epidote. Heavily epidote altered (bleached white-green). Calcite content weak. Rock is non-magnetic. Fractures common, 0.1 spacing (55°). No mineralization of Cu concentrations.						
		NOTES:						
		Short hole to identify mineralization near Cliff at North end of pit.						
		H.G. zone exists close to surface.						
		No native Copper.						
		High grade into CPY into extensive PY halo in footwall.						
		Assay to 36, nothing after.						

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT				Hole No.: DSR-45
Inclination: -55°	Azimuth: 070°	Total Depth: 39.63 m		Logged By: Paul D. Gray
Northing: 50118.49	Easting: 50222.6			Contractor: Britton Bros.
Collar Elev. (Ft): 5975.092	Core Size: NQ3 - Oriented Core		Date(s) Drilled: August 20-21, 2002	

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-10	40	GG- Broken fragments 0-6.1, subrounded to angular clasts within a 65% matrix supported Agglomerate. Calcite content moderate. Rock weakly magnetic. Fault zone at surface. RQD and recoveries still moderately high. 6.1-9.15 good RQD. Fractures at 0.1 spacing at all angles (50°). Disseminated sulphides evident at 9.15 - 10, as CC+bn+mag. Epidote flooded and altered. Expect low grade 0.1-0.4% Cu.						
10-16	85	GG -As above. More epidote alteration. Mineralization evident, Bn+CC+Cpy disseminated as blebs. Bn blebs to cm scale with calcite veins. Disseminated Bn+CC throughout as specs within matrix and clasts. Malachite on most fractures. High grade zone. Good RQD ~ 90%. Fractures at 0.1 Spacing (35°); healed and associated with calcite + lim+mal. Calcite content moderate. Rock Weakly to non magnetic. Expect high grade zone ~ 2% Cu.						
16-22	95	GG - As above. Epidote flooded and altered. Calcite/epidote vein zone with dominant Bn mineralization 16-16.7. CC+Bn disseminated as specs and blebs (to cm) throughout. Calcite vein associated blebed mineralization. Calcite content weak to moderate. Rock is non to weakly magnetic. Fractures at 0.15 spacing (45°); healed and associated with calcite veinlets. CC + bn disseminations as specs throughout (common rims of clasts). Expect high grade zone ~ 2%.						
22-27	95	GG- As above. Calcite content strong. Rock non to weakly magnetic. Fractures at 0.15 spacing (35°); healed and associated with calcite veinlets. CC + bn continues as disseminations, minor specs of CPY with grenokite 22-25. Minor CC+bn to 27. Py noted as f.g. disseminations towards end of interval. Epidote flooding and alteration pervasive. Passed through high grade? Expect medium grade over interval (0.5-1% Cu).						
27-34	98	GG- As above. Epidote flooded and altered. Core variably magnetic from non-weakly. Fractures at 0.25 spacing (35-40°); calcite veinlet associated and healed. Calcite content of matrix strong. Disseminated CC+Bn all but gone, as Disseminated Py becomes major mineralizer. Disseminations as f.g. specs common, but Py also as rims of clasts and blebs (rare). Passed through High Grade Zone. Expect low grade 0.1-0.3% Cu.						
34-39.63	90	GG - As above. Epidote altered and flooded. Calcite content strong to moderate. Rock is non to weakly magnetic. Disseminated Py pervasive within matrix, dominantly as f.g. specs to minor blebed concentrations. Fractures at 0.25 spacing (50°); healed with calcite + epidote. Expect no grade < 0.1% Cu.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)			
		<p>NOTES:</p> <p>Oriented hole designed to determine North end pit characteristics. Fault zone chosen as 1 of 4 Oriented holes, e.g. worst rock to encounter. Rock still good quality in spite of fault zone. First 12 m blocky and fractured (possible overburden). High Grade mineralization from 0 to 30 m. Rock not assayed, rather left as intact for further RQD studies. Drilled at proposed angle of pit walls at location.</p>							

Doublestar Resources Ltd.

Core Log Data Sheet

Project:	SUSTUT			Hole No.:	DSR-46		
Inclination:	-60°	Azimuth:	080°	Total Depth:	54.88 m		
Northing:	49622.88	Easting:	50620.67	Logged By:	Paul D. Gray		
Collar Elev. (Ft):	5965	Core Size:	NQ3 - Oriented Core		Contractor:	Britton Bros.	
				Date(s) Drilled:	22-Aug-02		

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-9	55	GGR - Rounded to angular clasts within agglomerate of 75% Matrix supported. 0-3.05 poor recovery, overburden. Epidote throughout. Minor graded bedding. Good competent rock with fractures at 0.25 spacing (30°). Calcite veinlets rare, associated with some fractures. Calcite content moderate. Rock is moderately magnetic. Epidote flooded and altered. No sulphide mineralization noted.						
9-16	100	GGR - As above. >10 Red clasts. Calcite content of core moderate. Rock is moderately magnetic. Epidote flooded and altered. Good competent rock, with fantastic continuity, fractures at 0.75 spacing (20°) (driller breaks too), unhealed fractures. 12-16 more pebble conglomerate? No noted sulphide mineralization.						
16-22	100	GGR - As above. Epidote flooded and altered. Solid and competent rock with fractures at 0.4 spacing (40°); usually unhealed. Calcite content subtle. Rock magnetic. Possible disseminated magnetite or specular hematite. No noted sulphide mineralization. Expect no grade.						
22-27	98	GG - As above with less red clasts <10%. Epidote altered and flooded. Minor graded beds, with finer grained zones more epidote altered. 22.12-22.42 calcite vein (rubbly recovery) at 35° to core axis. Competent rock, with fractures at 0.25 spacing (25°). Calcite content strong. Moderate to weak magnetism, dies down interval. Py disseminated throughout interval as f.g. specs within matrix. Expect no grade Cu.						
27-33	98	GG- AS above. 30.5-31.4 brown alteration of matrix (calcite bleached out). Otherwise calcite content strong. Rock non magnetic. Epidote flooded and altered. Single calcite vein (6cm) @ 28. Rock competent and continuous, with fractures at 0.4 spacing (30°). F.G. disseminated Py throughout matrix and clasts. Brown alteration 32.7-33.2 as well. Expect no to possibly low grade Cu mineralization (0.1-0.2% Cu).						
33-39	99	GG - As above. Epidote flooded and altered. Calcite content strong. Rock is non magnetic. Good competent rock with few fractures (0.4 spacing (50°), minor vertical fractures at 36-36.5). F.G. Py disseminated ubiquitously. No other sulphides noted. Brown alteration at 35.8-36.5, although less apparent than above. Expect no mineralization and no Grade Cu.						
39-44	100	GG- As above. Epidote flooded and altered. Calcite content strong. Rock non to moderately magnetic, increasing down interval. Good competent rock, with fractures at 0.5 spacing (45°), most breaks driller breaks (unhealed). Limited Py disseminations 39-40. No significant mineralization. Expect no grade Cu.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
44-50	96	GG -As above. Epidote alteration pervasive. Calcite content strong. Rock is moderately magnetic. Graded beds within interval. Fractures common at 0.3 spacing (45°); vertical fractures at 44.7-46.6, as conjugate sets. Good continuity of rock. Brown alteration of matrix associated with vertical fractures. No noted sulphide mineralization. Expect no grade Cu.						
50-54.88	97	GG -As above, exactly. Vertical fractures at 51-53, 54-54.6. Fractures at 0.25 spacing (70°). Rock magnetic where not brown alteration (at verticals). Calcite content strong. No noted sulphides, expect no grade Cu.						
		NOTES:						
		Central pit wall parallel oriented hole.						
		Rock competent and continuous. At the pit wall proposed location and orientation.						
		No Cu mineralization noted. Appear to be outside mineralized zone.						
		End of mineralized zone on new section (Section filling hole).						
		Probably close to mineralized envelope.						

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT	Hole No.: DSR-47
Inclination: -60° Azimuth: 095 Total Depth: 76.23 m	Logged By: Paul D. Gray
Northing: 49336.8 Easting: 50594.78	Contractor: Britton Bros.
Collar Elev. (Ft): 5857.782 Core Size: NQ3 - Oriented	Date(s) Drilled: 23-Aug-02

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-9	65	GGR - >10% red clasts. Epidote flooded and altered. 65% matrix supported agglomerate. Calcite content subtle. Rock moderately magnetic. Rock is competent, with fractures at 0.15 spacing (35°), dominantly unhealed. Veins of calcite common. Calcite vein at 8.5-8.65 at 35° to core axis (4 cm wide). No significant mineralization, Expect no Grade.						
9-14	98	GGR -As above. Calcite content subtle. Rock moderately magnetic. Calcite veinlets rare. Rock is competent, with fractures at 0.35 spacing (55°); vertical fractures at 13-13.8. Good continuity and competency of rock. Epidote altered and flooded. Fractures dominantly unhealed. No sulphide mineralization noted, expect no grade Cu.						
14-20	100	GGR - GG (Transition Zone). 18-20 Red clasts <10%. Some f.g. intervals. Subtle to moderate calcite content of rock. Continues and competent rock with fractures at 0.65 spacing (40°); unhealed. Minor sulphide mineralization noted, Cpy+cc+bn?? Calcite veinlets rare-common. Expect low grade 0.2% Cu.						
20-26	100	GG -As above. Epidote flooded and altered. F.G. graded beds common. Calcite content strong. Rock is non magnetic. Altered brown zone at 21.25-21.5 (same bleached alteration of matrix as in previous holes. Rock is competent with excellent continuity, with fractures at 0.4 spacing (25°). Brown alteration zone again at 24.2-24.4. Vertical fracture at 24.7-24.85 (associated with brown alteration). Low grade expected ~ 0.4% Cu.						
26-31	99	GG -As above with brown alteration zones 25.5-26.2, 26.75-27, 27.5-27.75, all associated with calcite veins and veinlets. Calcite content moderate to strong. Rock non to weakly magnetic. Rock competent with fractures at 0.3 spacing (60°), healed with calcite + limonite. Calcite veinlets at high angle to core axis (esp. 27.5-28.5). CC+bn v.f.g. disseminations noted throughout core. No malachite stains seen. Expect no-low grade, 0.2% Cu.						
31-37	100	GG -As above. 1 brown alteration zone at 33.6-33.8, associated with a calcite veinlet set. Calcite content of matrix subtle. Rock is weakly magnetic. Disseminated Py noted within interval, as v.f.g. specs within matrix and clasts. Possible CC+Bn, but expect mostly Py. Rock fractured at 0.2 spacing (45°). F.G. graded beds within section. Expect no grade % Cu.						
37-43	100	GG -as Above. Epidote flooded and altered. Rock is extremely competent and continuous, with fractures at 0.45 spacing (35°), dominantly unhealed, but cal+lim+mal where healed. CPY disseminations noted throughout (esp. 40-43); grenokite associated CPY. Py is the dominant sulphide within the interval. Calcite content strong. Variably magnetic. Expect 0.5-1% Cu.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
43-49	95	GG- As above. Epidote flooded and altered plus calcite veins where brown alteration seen (46.25-46.74, 47-49. Vertical fractures malachite stained, with CC+Bn associations. Fractures at 0.2 spacing (70°). Calcite content strong to moderate> rock is non magnetic> expect high grade over interval >1% Cu.						
49-55	98	GG -As above. Calcite content strong to moderate. Epidote flooding and alteration conspicuous. Rock is non to weakly magnetic. Epidote+Cal+lim+mal vein related alteration associated with the mineralization. CC+Bn throughout, esp. vein proximal. Fractures at 0.3 spacing (45°). Expect high grade > 1% increasing down interval (53-55 perhaps 2%).						
55-61	100	GG -As above. Fractures are at 0.4 spacing (30°). Calcite content moderate. Epidote flooded and altered esp. 59-61 where f.g. graded bed bleached green-white (low calcite content). Rock is non-magnetic. Malachite noted on all fractures. CC+Bn disseminated throughout interval within matrix and clasts as specs to blebs. Calcite veinlets common. Good solid rock. Expect ultra high grade interval (3-4% Cu).						
61-66	100	GG- As above. Fractures at 0.35 spacing (25°). Calcite content moderate. Epidote flooded and altered. F.G. graded beds zones very altered. Bleached green-white alteration. Rock is non-magnetic. CC+Bn disseminated throughout. Good competent and continuous rock. Expect high grade intersection, 3-2% Cu.						
66-72	100	GG - As above. Fractures at 0.4 spacing (20°). Calcite content moderate. Epidote flooded and altered. Bleach green-white (low calcite content). Rock is non magnetic. CC+Bn disseminated throughout, but in lower concentrations than above. Good competent rock with continuity. Expect >1% Cu.						
72-76.23	100	GG - As above. Fractures at 0.35 spacing (40°). Calcite content moderate. Epidote flooded and altered. Good competent rock with excellent continuity. Rock is non magnetic. Bn+Cc disseminated rarely. Expect low grade 0.5% Cu. Passed through High grade envelope.						
		NOTES:						
		Oriented hole, central and parallel to proposed pit walls.						
		Py noted first, then CPY, then to main mineralized zone, and Odd Order.						
		Good competent wall rocks. 10' runs common, driller breaks common.						
		Excellent High Grade mineralization at bottom of hole. Mineralization continues outside of pit walls.						
		Epidote flooding with mineralization. Calcite veins and veinlets appear to carry the early mineralization.						
		Even the brown altered rock is still competent.						

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT	Hole No.: DSR-48
Inclination: -60° Azimuth: 040° Total Depth: 67.07 m	Logged By: Paul D. Gray
Northing: 48871.5 Easting: 50690.15	Contractor: Britton Bros.
Collar Elev. (Ft): 5768.581 Core Size: NQ3 - Oriented Core	Date(s) Drilled: 25-Aug-02

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-9	72	GGR - > 10% Red clasts. 60% matrix supported agglomerate, clasts angular to subrounded. And < 1cm avg. F.G. graded bedded units. RR 0-6.1 (possible overburden). Epidote altered core. Calcite moderate. Rock weakly to moderately magnetic. 0-7 well fractured and blocky. Fractures at 0.1 spacing (25°), vertical fractures at 6.1-6.9. Solid and competent rock after 7. Closed texture. No sulphide mineralization noted, expect no Grade Cu.						
9-15	100	GGR -As above. Epidote flooded and altered. Graded beds on 10 cm scale. Calcite content subtle. Rock moderately magnetic. Good solid rock and continuous with fractures at 0.35 spacing (35°). Calcite around clasts (rims) noted. Epidote dominant within interval. No significant mineralization noted. Expect no grade Cu.						
15-21	98	GGR -As above. More f.g. graded bed layers with obvious epidote alteration. Calcite content subtle. Rock moderately magnetic. Good solid rock with fractures at 0.25 spacing (35°); calcite vein related, and dominantly unhealed. Less red clasts than above, still GGR. No significant mineralization noted. Expect no grade % Cu.						
21-26	99	GGR - As above (although 50% matrix supported). Epidote altered and flooded. Fractures at 0.2 spacing (70°), vertical fractures at 23.1-23.3, 24.4-25.8, all calcite vein related and healed with Cal+lim. Calcite content subtle, except around vertical fractures. Rock is moderately magnetic. Good solid and continuous rock. No sulphides noted. Expect no grade Cu.						
26-32	98	GGR - GG Transition zone at 31. <10% red clasts. Epidote altered zone (f.g. graded beds well altered). 26.74-27.3 epidote vein and epidote flooded wall rock. Calcite content subtle to weak. Rock weakly to moderately magnetic. Fractures at 0.4 spacing (35°), healed and non (cal+lim). Vertical fractures at 30.1-30.9. Good solid continuous rock. No sulphides noted, expect no Grade Cu.						
32-38	95	GG -As above. Epidote altered and flooded. Calcite veins at vertical angles to core axis throughout. Vertical fractures associated with calcite veins (33-36). Fractures at 0.25 spacing (70°). Subtle calcite content. Rock is non to moderately magnetic. No sulphides noted, expect no grade.						
38-44	99	GG - As above. Epidote altered. Calcite veins with malachite staining from 40 -44. Good continuous rock, with fractures at 0.35 spacing (40°). Minor CC+Bn disseminations throughout matrix. Calcite content strong to moderate. Rock magnetic. Malachite fractures and stringers 40-44. Expect elevated Cu grade ~0.5% Cu.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
44-50	99	GG – As above. Epidote flooded and altered (esp. within f.g. beds). CC+Bn disseminations increasing in abundance, disseminated as f.g. to v.f.g. specs throughout matrix and clasts. Calcite strong within matrix. Calcite vein at 40° at 48.4-48.6 with azurite and malachite+CC+Bn stringers. Fractures at 0.45 spacing (30°); healed and associated with calcite veinlets. Calcite veins appear to be carrying mineralization. Good strong competent rock. Expect High grade interval, > 1% Cu.						
50-56	100	GG –as above. CC+Bn disseminated ubiquitously., although in less abundance than above. Calcite moderate to strong. Rock weakly to moderately magnetic. Fractures at 0.35 spacing (45°); vertical fractures at 54.1-54.2, 52.9-53.2. Good solid and continuous rock. Expect 1% -0.5 % Cu grades.						
56-60	99	GG – As above. Epidote altered and flooded.. Fractures at 0.3 spacing (25°). Good solid and continuous rock. Heavy epidotization, esp. the f.g. graded beds. Cc+bn disseminations still around, much less than previous. Calcite veinlets common. Fractures are healed to non-healed. Calcite content moderate. Rock is non-weakly magnetic. Passed through main mineralized zone. Expect low grade zone 0.2-0.4% Cu.						
60-64	97	GG –as Above. Epidote flooded. Calcite content moderate to subtle. Rock moderately magnetic, more so down interval. Epidote vein @ 63.6, with heavy wall rock alteration on each side. Good solid rock, with fractures at 0.25 spacing (25°); healed with cal+epi. CC+Bn disseminated in minute quantities (trace). Expect low to no grade Cu.						
64-67.07	99	GG –As above. Epidote flooded and altered 9esp. 65.6-66 – epi-cal vein. Calcite content moderate to subtle. Rock is moderately magnetic to non magnetic. Fractures at 0.15 spacing (70°); vertical fractures at 64.3-66, healed and unhealed (cal+epi where healed). No significant sulphide mineralization, expect no Grade Cu.						
		NOTES:						
		Oriented hole in South of proposed pit. Drilled parallel to pit walls. Intersected High Grade zone – the mineralization is continuous. Good quality recoveries and RQD. Good solid Rock. Epidote flooded.						
		No native copper noted. All Sulphides with limited malachite staining.						

Doublestar Resources Ltd.

Core Log Data Sheet

Project: SUSTUT	Hole No.: DSR-49	
Inclination: -90°	Azimuth:	Total Depth: 396.34 m
Northing: 48514.86	Easting: 50619.23	Logged By: Paul D. Gray
Collar Elev. (Ft): 5670	Core Size: BQ	Contractor: Britton Bros.
		Date(s) Drilled: August 26-29, 2002

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
0-9	60	RRG > 10 % green clasts. 60% matrix supported agglomerate. Gritty red matrix with hematite alteration. Epidote altered zones. Clasts sub-angular to sub-rounded. Fractures at all angles (avg. 50° @ 0.25 spacing). Calcite related and healed fractures, minor fractures coated with cal+lim+minor clay). Hematite rims on clasts. Calcite content of matrix moderate. Rock non-weakly magnetic. Trace v.f.g. CC?? (poss. Specular hematite). Closed texture. Maximum clasts to 5 cm. No significant mineralization expected.						
9-17	95	RRG - As above. Fractures at 0.75 spacing at dominantly low angles (~30°), dominantly unhealed, with calcite and lim where healed. Hematite within matrix and as rims. Graded beds (f.g. sections) on 10-30 cm scale highly epidotized. Good competent and continuous rock. Max clast to 6 cm. Closed texture. Calcite content moderate. Variably magnetic (clasts magnetic, matrix not). Trace disseminated spec hema? No sulphides noted.						
17-24	99	RRG - As above. Epidote altered, epidote within matrix alternates in content with hematite rich zones. Graded bedded intervals are f.g. and flooded with epidote. Max clast size to 8 cm. Foliation at low angles to core axis. Fractures at 0.8 spacing, at dominantly low angles to core axis. (25 °), unhealed. Calcite content moderate. Rock, non to weakly magnetic. Good solid rock, competent and continuous. No sulphides noted.						
24-31	99	RR-GGR - Transition at 24.5. >10% red clasts. Fractures at 0.3 spacing at dom. Low angles (30°), usually unhealed. Epidote flooded and altered. Max clast to 10 cm. Rock remains as above, 65% matrix supported agglomerate, clasts sub-rounded to sub-angular. Epidote vein with calcite at 27.7-27.9. Good competent and continuous rock. Calcite content moderate to subtle. Rock mod-weakly magnetic. No sulphides noted, expect no grade.						
31-38	95	GGR- As above. Epidote flooded. Fractures at 0.25 spacing at dome low 35°, dominantly unhealed, but where healed, cal+lim. Calcite content mode-weak. Rock is moderately magnetic. Epidote and calcite vein at 35.4-36. calcite vein system at 38. F.g. graded zones epidote flooded. Trace f.g. cc disseminated as v.f.g. specs within matrix. Competent and continuous rock. Expect no grade.						
38-45	94	GGR - As above. Epidote flooded and altered. Interval is fractured and broken Re: calcite vein and possible fault. Fractures at 0.15 spacing at dominantly high angles (65°). Vertical fractures at 43-45, calcite vein related (open texture). Calcite content low. Rock is mod mag. Lim+cal veins as alteration product. Trace CC noted as v.f.g. diss within matrix. Expect no grade.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
45-52	95	GGR-As above. Fault and fracture continues from above to 47.3. Calcite vein related vertical fractures. Epidote flooded, esp. f.g. sections. Calcite vein vertical no fractures at 48-48.5. Epidote-Calcite vein @ 50.5-50.9. Fractures at <0.1 spacing from 45-47.3, 47.3-52 avg. 0.3 spacing at low 30°, both healed and non (with cal+lim). No sulphides noted, expect no grade.						
52-59	99	GGR - As above. Good competent rock, solid and continuous. Epidote flooded and altered. Fractures at 0.4 spacing at dom 30°, all calcite veinlet related (healed with calcite). Calcite content of matrix is moderate to weak. Rock is magnetic to nonmagnetic. Hematite rich rock where not epidote flooded. Clasts more rounded and larger (avg. 1.5cm), max clast to 3cm. No sulphide mineralization noted, expect no grade.						
59-67	95	GGR - As above. Epidote altered. Calcite-epidote vein at 60.6-60.8, 63.5-63.67, 66.75-67. N.C. 64-64.15, within a red, hematite rich zone. Calcite content moderate-weak. Rock magnetic-mod mag. Fractures at 0.15 spacing, avg. 45°, healed and unhealed with cal+epi+lim. Vertical fractures at 62-62.5, 65.75-65.9. N.C. 64 and on, diss as f.g. specs within matrix and clasts. Expect slightly elevated Cu grades.						
67-73	98	GGR - As Above. Epidote altered and flooded (cal+epi veins) 67-67.3. Epidote veinlets throughout. Good competent rock, with fractures @ 0.4 spacing at dom low angles 40°, unhealed to healed (cal+epi). Calcite veinlets common. Calcite content moderate. Rock variably magnetic. N.C. disseminated in small quantities throughout, esp. in hematite rich zones. Epidote altered zone, Expect low grade zone.						
73-80	100	GGR - As above. Graded beds common. Epidote flooded and altered throughout. Fractures at 0.45 spacing, at low 30°, dom unhealed. Minor disseminated CC+Bn. Calcite content moderate. Rock variably magnetic. Good competent rock. Rare to trace CC+Bn, but increasing down section. Expect low to poss medium grade. (0.5-0.7% Cu).						
80-88	99	GGR - As above. Calcite content moderate. Rock variably magnetic (mod-non), epi zones non, rest of rock weak to mod. Mal noted on epi-cal fractures. Fractures at 0.2 spacing, 45°, healed and non. Vertical fractures at 86.94 - 87.35. 84-85 (high fractured zone). Fractured rock zone. Malachite restricted to epidote rich zones. Sulphides as above. Heavy epi 81-82.4, 84-84.9. Expect low -med grade Cu, non-ore zone.						
88-93	97	GG - Transition zone. Red clasts <10%, to none. Epidote flooded and altered. Max clast size to 12 cm. F.g. tuff horizons noted with 65% matrix supported agglomerate. Epidote veins prevalent 89.6-94. Calcite content mod-subtle. Calcite veinlets common, with epidote stringers. Fractures at 0.25 spacing, 25° healed (cal+epi+lim) to non. Low content of cc disseminations. Expect no to low grade Cu.						
93-100	98	GG - As above. Dominated by heavy epidote alteration throughout. Calcite content low to mod within matrix. Epidote bleached matrix. Rock variably magnetic (mod-non). Fractures at 0.25 spacing at 30°, where healed (epi+cal). Max clast to 4 cm. Good continuous solid rock. No sulphide content, expect no grade.						
100-108	95	GG - As above with epidote dominant within interval (flooded and altered). Epidote veins and calcite veins prominent. Fractures common where epidotized, at 0.5 spacing, 30° (epi+cal) where healed. Rock non-weakly magnetic. Minor clay component to epidote healed fractures + lim. Expect no grade Cu.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
108-116	97	GG – As Above. Epidote flooding and alteration continues to 115. 109.4-109.6 ground and fractures section. Fractures at 0.2 spacing, 30°, healed with epi+cal, minor clay on some fractures. Epidote calcite veinlets common. Calcite content moderate. Expect no grade. No sulphides noted.						
116-123	97	GGR – Increased Red clasts. Hematite within matrix. Cal+epi veinlets common. Fractures at 0.3 spacing, 40°, associated and healed with calcite. Max clast size to 6 cm. F.g. graded bedding zones (tuff?) on 10-20 cm intervals. Rock is ~ competent. Fractures related to common calcite veinlets. Disseminated CC+Bn increasing down interval as v.f.g. diss within matrix. Expect low grade Cu.						
123-130	99	GGR – As Above. H.G. Bn+CC 127.5-130. Classic looking mineralized zone. F.g. specs and blebs of sulphides throughout, esp. on epidote altered zones. Mal on fresh fractures within h.g. zone. Epidote altered interval. Epi+cal veinlets common. Calcite content of matrix subtle. Rock non-mag within epi zones, mod mag elsewhere. Expect H.G. > 1% Cu within 127-130. Sulphides diss as above.						
130-138	98	GGR – As above. H.G. zone continues to 131.4. Cc+BN finely disseminated thereafter to med for duration of interval. Fractures at 0.1 spacing, 35°, healed to non (cal+epi with minor lim). F.G. interbedded tuff units on 10 cm scale. Calcite content mod-strong. After H.G. rock mod mag (non-magnetic within mineralization). Calcite related fractures. Expect h.g. to 131, then to med-low.						
138-145	98	GGR – As above. Epidote Alteration evident, but in smaller quantities than above. Fractures at 0.1 spacing, 45° (unhealed), cal+epi veinlet associated. Vertical fractures at 191-191.5. Fractures Rock. Calcite content strong to moderate. Rock mod-strongly magnetic. Diss CC+Bn ultra f.g., and dying out. No significant sulphide content. Expect no grade.						
145-152	99	GGR – As above. Epidote altered, but less so than above. Competent rock, with fractures at 0.25 spacing, 35°, unhealed to healed (Cal+lim). Epidote vein style alteration 151.3-151.9 (cal and vertical fractures). Max clast to 20 cm. Calcite content strong to moderate. Rock magnetic. Calcite veinlets rare. No significant sulphides noted. Expect no grade Cu.						
152-160	99	GGR – As above. Epidote altered calcite vein interbedded. Epidote calcite vein at 156.4-156.65. Conjugate sets of Cal+Lim veins at 152.1-152.65. Fractures at 0.35 spacing, 45°. Vertical fractures at 159.43-157.15. Dominantly competent rock, solid and continuous. Calcite content of matrix subtle. Rock weakly to moderately magnetic. Cal+Lim healed fractures. No sulphides noted. Expect no grade Cu.						
160-167	95	GGR – As above. Epidote altered. Calcite content weak. Rock moderately magnetic. Fractured rock, 0.1 spacing, 50°. Calcite veinlets and associated fracture healing throughout. Calcite veins at high angles to core axis at 166.3-166.6, 165.08-165.14, 162-162.66. Expect no grade Cu. No sulphides noted.						
167-174	96	GGR – As above. Calcite content to moderate. Rock mag-mod mag. Epidote alteration and calcite veins/veinlets prevalent. Fractured Rock, 0.15 spacing, 60°. Vertical fractures at 168.5-168.75, 171.2-171.5 (major fracture zone at 171.8-174). Rock crumbly and weak. No sulphides noted. Expect no grade Cu.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
174-181	95	GGR – As above. Epidote altered and flooded in zones. Fractured zone from above continues to 174.5. Fractures at 0.25 spacing, 40°, commonly associated with cal+epi veins, and healed with same. Calcite veins common. 173.78-174.9, 177.35-177.5 vertical fractures and cal veins. Calcite content strong. No sulphides noted. Expect no grade Cu.						
181-187	98	GGR – As above. Epidote altered. Fewer calcite veins than above. Fractures at 0.35 spacing, 30°. High angle fractures associated and healed with cal+epi. Calcite content of matrix strong. Rock is moderately magnetic. Epidote veins throughout (cm scale). Expect no grade Cu.						
187-195	92	GGR – As above. Epidote flooded and altered zone. 191.3-192.11 fault zone with gouge and clay (soft clay-like alteration on fractures) epi+cal vein associated with common lim. Fractures at 0.15 spacing, 55°, healed and associated with cal+epi veins and veinlets. High calcite content. No sulphide mineralization noted. Expect no grade Cu.						
195-201	80	GGR – As above. Lower recovery/RQD than normal. Fractured and broken rock. Fractures at <0.1 spacing, 40°, calcite vein related. Calcite content strong. Rock mod mag. Epidote flooded interval. Poor quality of rock related to epi+cal. Vertical fractures throughout. Max clast to 5 cm. Hematite content of matrix high. Expect no grade Cu.						
201-208	95	GGR – As above. More competent rock. Epidote altered. Calcite content mod-subtle. Rock mod mag. Fractures at 0.2 spacing, 65°, healed and associated with cal+epi veins. No sulphide mineralization noted. Expect no Grade Cu.						
208-215	95	GGR – As above. Hematite rich interval. Epidote altered. Calcite content subtle. Rock mod mag. Fractures at 0.1 spacing, 45°, healed with and associated with Cal+epi. Calcite veinlets common (as sets & anatomizing veins). Weak rock, well fractured. Bad Ground. Expect no grade Cu.						
215-221	88	GGR – As above. Hematite rich interval. Epidote altered and calcite veinlets injected. Epidote flooded 220-221. Fractures at 0.1 spacing, 35°, healed with cal+lim. Fractured and broken interval. Calcite content moderate. Variably magnetic rock. No sulphides noted, expect no grade % Cu.						
221-227	92	GGR – As above. Epidote altered throughout. Epidote flooded to 221.5. More competent rock than above. Fractures at 0.35 spacing, 30° (cal+epi+lim where healed). 222.8-223.3 vertical calcite vein, broken up zone related. Calcite content weak. Rock mod mag. No sulphides noted. Expect no grade Cu.						
227-235	98	GGR – As above with less red clasts. F.G. zones (poss. Transition zone). Calcite veins common. Epidote altered. Rock more competent than above. Fractures at 0.4 spacing, 30°, healed and associated with calcite veins. No sulphides noted. Expect no grade Cu.						
235-241	92	GGR – As above with hematite rich matrix and clasts. Calcite veinlets common. Epidote alteration abundant. Epidote flooded 240.13-241 and on. Fractures common, 0.15 spacing, 35°, healed by calcite and associate with calcite veins plus epidote. Fractured section. Calcite content low-subtle. Rock variably magnetic. Calcite dominant within matrix. No sulphides noted. Expect no grade Cu.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
241-248	90	GGR - As above. Broken fractured and brittle section. Widespread epidote and calcite veins reduce competency of core. Epidote flooded to 241.4. Fractures common, <0.1 spacing, 45°, healed and associated with calcite. Vertical fractures throughout. Cal+lim veins common. Moderate calcite content. Anatomizing veinlets throughout. Hematite noted although less than above. No sulphides noted. Expect no grade Cu.						
248-256	95	GGR - As above. Epidote altered throughout, more green matrix than above. Rock more competent than previous 2 intervals. Fractures at 0.15 spacing, 30°. 248-253, as above with many calcite veinlets. Calcite content moderate. No sulphides noted. Expect no grade Cu.						
256-261	98	GGR - As above. More competent rock than above. Epidote alteration pervasive. Fractures at 0.2 spacing, 35°, associated with cal+epi veins. Minor vertical veins. Clay seam at 257.9-258.15 (epi+cal related). Calcite content moderate. Rock moderately magnetic throughout. Limited vertical fractures. No sulphides noted. Expect no grade Cu.						
261-269	96	GGR - As above. Epidote altered throughout. Epidote veins and calcite veins common. Epidote veins at 266-267.5 at dom. Low angles. Reddish matrix from increased hematite content. Fractures common, 0.1 spacing at 30°, healed and associated with cal+epi+lim. RGR 263-269.5. Conjugate set of veins and fractures 268.3-269. Calcite content moderate. Rock mod mag. No sulphides noted. Expect no grade Cu.						
269-276	98	GGR - As Above. Epidote altered. Fractured interval, <0.1 spacing, 45°, healed to non. Not competent rock, but good recoveries. Epidote pervasive within matrix. Calcite content weak. Rock mod mag. Minor open texture on calcite veins. No sulphides noted. Expect no grade Cu.						
276-284	96	GGR - As above. Hematite content of matrix high. Epidote alteration dominant. Continuous and competent rock. Fractures at 0.35 spacing from 276-278, and 0.45 spacing from 278-284, 25°, unhealed. Lack of calcite veinlets. Calcite content weak. No sulphides noted. Expect no grade Cu.						
284-291	95	GGR - As above. RR contact 288.15. F.g. than previous. More matrix supported (75%) remains agglomerate. Hematite rich matrix. Good competent rock. Fractures at 0.35 spacing, 35° (unhealed). Calcite veinlets rare (except 288-290), some high angle veinlets. Epidote alteration pervasive. Calcite content subtle to weak. Solid and continuous rock. No sulphides noted. Expect no grade Cu.						
291-298	99	RR - As above. Epidote altered, flooded 293.25-295.6. Bleached green (matrix and clasts), then back to RR to 298. Good competent rock. Fractures at 0.3 spacing, 20°, unhealed. Rare calcite veining. Solid and continuous rock. Calcite content weak within matrix. Rock mod mag, except in epi flooded area, where non mag. Hematite within matrix common. No sulphides noted. Expect no grade Cu.						
298-305	90	RR - As above with increased epidote alteration of the matrix, to flooding in parts. Matrix alteration high. Vertical calcite veins 298-298.5. Vertical fractures at 300.8-301.83. Fractures at 0.2 spacing, 30°, dominantly unhealed. Rock competent and continuous. Calcite content subtle to weak. Calcite healed fractures, where fractures are healed. No sulphides noted. Expect no grade Cu.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
305-312	95	RR - As above, within increasing epidote from above. Calcites sub-common. Calcite content weak to subtle. Rock moderately magnetic. Epidote altered 305.5-310. Back to RR +cal. Fractures 0.25 spacing, 25°, non-healed. Rock competent and continuous. No sulphides noted. Expect no grade Cu.						
312-319	90	RR - As above. Cal (minor epi) vein at 312.35-313.39, softish (cal dominant with epidote component at start and end). Blocky and fractures recovery. Epidote flooding at 317-319, 313.4-315. Rock bleach green. Fractures at 0.1 spacing, 45°, healed and non. Poor recoveries due to cal+epi veins, otherwise solid and continuous. Calcite content of matrix weak. No sulphides noted. Expect no grade Cu.						
319-325	97	RR - As above. Epidote altered, but more subdued than above. Calcite veinlets common. Calcite content of core subtle. Core good competent and continuous. Fractures at 0.2 spacing (because of calcite veinlets), 20°. Fractures are dominantly unhealed. No sulphides noted. Expect no grade Cu.						
325-332	98	RR - As above. Transition zone to GGR. Broken and fractured interval with much calcite (Fault Zone) 334.89-339. Calcite content moderate. Calcite veinlets common, with cal+lim staining. Crumbly interval, with poor competency. Fractures at <0.1 spacing, 40°, healed with cal+lim. Epidote veins noted with flooding and alteration. No sulphides noted. Expect no grade Cu.						
332-339	90	RR - As above. Transition zone to GGR. Broken and fractured interval with much calcite (Fault Zone) 334.89-339. Calcite content moderate. Calcite veinlets common, with cal+lim staining. Crumbly interval, with poor competency. Fractures at <0.1 spacing, 40°, healed with cal+lim. Epidote veins noted with flooding and alteration. No sulphides noted. Expect no grade Cu.						
339-345	95	GGR - Crumbly fractured zone ends at 339.15, however moderate fracturing maintains. Fractures at 0.1 spacing, 45°, dominantly healed with calcite. Cal+epi alteration dominates core. Calcite veinlets common. Bleached zone 344.25-345. Rock moderately mag. Calcite content of matrix subtle. Good competent rock. No sulphides noted. Expect no grade Cu.						
345-353	99.9	GGR - Bleached as above to 353. Good competent rock, almost siliceous in appearance. Calcite subtle within matrix. Calcite veinlets common. Fractures at 0.3 spacing, 20°. Epidote altered and flooded zone. Silica? Good competent, and strong rock. No sulphides noted. Expect no grade Cu.						
353-360	99	GGR - As above. Good competent rock. Bleaching to 353.2, epidote altered from there on. RR? (but epidote green matrix)?? Calcite veinlets less common than above. Calcite content of subtle. Fractures at 0.2 spacing, 30°, commonly calcite healed. No sulphides noted. Expect no grade Cu.						
360-367	99	GGR - As above. F.G. to C.G. agglomerate mix. Epidote altered zone with calcite common. Calcite veinlets as above. Fractures at 0.35 spacing, 35°. Good competent rock. Calcite content low. Rock mod mag. Hematite rich matrix. Minor calcite veins at 365.8-366.4. No sulphides noted. Expect no grade Cu.						

Interval (Metres)	Core Recovery %	Description	Sample	From - To (Metres)	Cu (%)	Ag (ppm)		
367-375	97	GGR - As above. Epidote flooded and altered. Increasing cal+epi veins and veinlets. Calcite content subtle. Fractures at 0.2 spacing, 40°. Strong and continuous rock. Moderately magnetic. No sulphides noted. Expect no grade Cu.						
375-381	90	RR - Less epidote in matrix than above. Epidote altered and flooded only 380.68-381.01. Calcite veinlets common. Calcite content strong. Epi+Cal healed fractures at 0.1 spacing at all angles. Broken and fractured rock. Vertical fractures at 378-380. No sulphides noted. Expect no grade Cu.						
381-388	91	GGR-RR. Good competent rock, except for 1 fractured and crumbly section @ 383.5-384. Cal+Epi veins common. Epidote alteration pervasive. Fractures at 0.25 spacing, 45°, healed with calcite where healed. Calcite content weak but present. No sulphides noted. Expect no grade Cu.						
388-396.34	95	RR - GGR Epidote altered throughout. Calcite content strong. Calcite veins at 393-393.61, associated with broken and crumbly section. Otherwise, good competent rock. GGR down interval. Fractures at 0.5 spacing at dominantly 35-45°, usually cal+lrm healed and associated. No sulphides noted. Expect no grade Cu.						

APPENDIX - B

ANALYTICAL RESULTS



ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
 Aurora Laboratory Services Ltd.
 212 Brooksbank Avenue
 North Vancouver BC V7J 2C1 Canada
 Phone: 604 984 0221 Fax: 604 984 0218

To: DOUBLESTAR RESOURCES LTD.
 305 - 1549 MARINE DR.
 WEST VANCOUVER BC V7V 1H9

Page #: 2 - A
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 Date: 25-Sep-2002
 Account: QAQ

Project: SUSTUT-2002

CERTIFICATE OF ANALYSIS VA02003177

Sample Description	Method Analyte Units LOR	WEI-21	Ag-AA61	Cu-AA61	Ag-AA62	Cu-AA62
		Recvd Wt kg 0.02	Ag ppm 0.5	Cu ppm 1	Ag ppm 1	Cu % 0.01
16651		3.20	0.8	3310		
16652		3.72	0.7	2760		
16653		3.44	8.2	2190		
16654		3.82	4.6	3220		
16655		3.64	2.4	1795		
16656		3.36	3.7	3100		
16657		3.64	51.7	3980		
16658		3.62	27.5	4500		
16659		4.12	10.3	3040		
16660		3.10	4.9	3450		
16661		3.54	3.3	2420		
16662		3.32	13.5	3950		
16663		3.46	36.5	4610		
16664		3.44	16.0	4500		
16665		3.70	5.1	5010		
16666		3.28	1.6	6260		
16667		3.54	2.9	>10000		1.36
16668		4.08	2.6	8400		
16669		2.36	28.7	6380		
16670		0.06	12.7	>10000		1.49
16671		3.96	6.2	2460		
16672		3.30	4.1	118		
16673		3.54	12.8	121		
16674		3.60	22.0	117		
16675		3.00	11.3	100		
16676		3.54	6.0	5630		
16677		3.78	3.3	1440		
16678		3.42	2.3	161		
16679		4.18	1.9	125		
16680		0.38	32.2	129		
16681		3.58	21.7	3920		
16682		4.20	22.8	5960		
16683		2.82	9.6	5570		
16684		3.80	5.5	2420		
16685		3.08	4.2	2310		
16686		3.42	8.6	1445		
16687		3.66	1.3	2910		
16688		3.22	0.8	1790		
16689		3.74	0.8	1985		
16690			0.8	1985		

Comments: Due to the high copper content of the sample, we would recommend to analyze them by high grade assay. Carry over expected.



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Aurora Laboratory Services Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

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WEST VANCOUVER BC V7V 1H9

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Project : SUSTUT-2002

CERTIFICATE OF ANALYSIS VA02003177

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Ag-AA62 Ag ppm 1	Cu-AA62 Cu % 0.01
16691		3.34	0.8	2320		
16692		3.78	0.9	3950		
16693		3.54	0.6	2620		
16694		3.60	1.0	7130		
16695		3.74	2.7	>10000		1.31
16696		3.34	3.8	>10000		2.76
16697		3.72	4.5	>10000		3.98
16698		3.60	6.9	>10000		4.80
16699		3.70	4.5	>10000		2.06
16700		3.84	4.5	>10000		1.80
16701		3.38	0.7	4330		
16702		4.96	<0.5	153		
16703		3.26	<0.5	131		
16704		2.88	<0.5	138		
16705		2.74	<0.5	104		
16706		3.06	<0.5	106		
16707		3.28	<0.5	117		
16708		3.74	<0.5	135		
16709		3.76	<0.5	145		
16710		0.06	>100	>10000	137	1.47
16711		3.56	<0.5	125		
16712		2.90	<0.5	121		
16713		3.20	2.8	>10000		3.83
16714		3.56	<0.5	176		
16715		1.88	<0.5	231		
16716		4.98	<0.5	48		
16717		3.70	<0.5	168		
16718		4.34	<0.5	242		
16719		2.68	<0.5	166		
16720		4.16	<0.5	139		
16721		3.52	<0.5	139		
16722		3.66	<0.5	719		
16723		3.42	0.5	1110		
16724		3.46	<0.5	102		
16725		3.84	<0.5	115		
16728		3.40	<0.5	106		
16727		2.80	<0.5	102		
16728		3.44	0.8	1595		
16729		3.32	2.2	9120		
16730			2.3	9360		

Comments: Due to the high copper content of the sample, we would recommend to analyze them by high grade assay. Carry over expected.



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Aurora Laboratory Services Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

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WEST VANCOUVER BC V7V 1H9

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Project : SUSTUT-2002

CERTIFICATE OF ANALYSIS	VA02003177
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Ag-AA62 Ag ppm 1	Cu-AA62 Cu % 0.01
16731		3.30	2.7	>10000		1.22
16732		3.64	1.5	9530		
16733		3.50	3.3	>10000		2.00
16734		3.00	5.9	>10000		2.62
16735		4.38	2.9	6780		
16736		2.84	2.1	6200		
16737		3.96	0.8	1830		
16738		3.28	<0.5	1940		
16739		3.26	0.7	1420		
16740		3.48	0.5	2070		
16741		3.18	0.7	3750		
16742		3.74	0.6	2660		
16743		3.56	0.8	3110		
16744		3.72	4.3	>10000		3.47
16745		3.48	3.5	>10000		4.51
16746		3.72	1.0	9500		
16747		3.40	<0.5	833		
16748		3.50	<0.5	285		
16749		3.10	<0.5	207		
16750		0.06	<0.5	111		
19001		3.20	<0.5	309		
19002		4.20	<0.5	675		
19003		3.44	0.9	4030		
19004		3.88	0.7	3740		
19005		4.72	<0.5	3850		
19006		3.80	0.7	3080		
19007		3.44	0.6	4350		
19008		3.38	0.7	7150		
19009		4.74	0.7	8870		
19010		3.54	1.9	>10000		2.48
19011		3.50	3.9	>10000		1.92
19012		3.40	3.1	>10000		1.32
19013		3.42	1.6	4780		
19014		3.44	1.4	4450		
19015		3.40	0.7	1900		
19016		3.68	1.4	2720		
19017		4.04	1.2	1270		
19018		3.94	2.3	4390		
19019		3.42	0.7	708		
19020		0.06	>100	>10000	140	1.40

Comments: Due to the high copper content of the sample, we would recommend to analyze them by high grade assay. Carry over expected.



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Aurora Laboratory Services Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

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WEST VANCOUVER BC V7V 1H9

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Account: QAQ

Project : SUSTUT-2002

CERTIFICATE OF ANALYSIS VA02003177

Sample Description	Method Analyte Units LOR	WEI-21	Ag-AA61	Cu-AA61	Ag-AA62	Cu-AA62
		Recvd Wt kg 0.02	Ag ppm 0.5	Cu ppm 1	Ag ppm 1	Cu % 0.01
19021		2.58	0.7	961		
19022		3.76	0.8	2300		
19023		3.52	<0.5	712		
19024		3.66	<0.5	801		
19025		7.26	<0.5	371		
19026		3.68	<0.5	613		
19027		5.16	1.1	3580		
19028		3.14	0.6	1880		
19029		3.30	0.6	1735		
19030		4.02	0.8	2610		
19031		3.04	0.8	2300		
19032		3.14	1.2	6760		
19033		4.48	2.2	9580		
19034		3.40	1.3	3980		
19035		0.04	1.0	3250		
19036		3.52	0.7	2310		
19037		4.24	0.6	2360		
19038		3.10	5.4	>10000		3.66
19039		3.38	11.5	>10000		5.02
19040			14.4	>10000		5.18
19041		2.24	11.1	>10000		5.13
19042		2.00	10.2	>10000		5.37
19043		4.06	9.3	>10000		4.99
19044		3.90	10.7	>10000		3.42
19045		3.66	4.4	>10000		1.97
19046		3.68	4.9	>10000		3.73
19047		3.48	11.7	>10000		2.51
19048		3.58	0.7	4510		
19049		3.56	1.0	8840		
19050		3.62	0.7	4060		
19051		3.76	0.8	4910		
19052		3.74	1.3	5550		
19053		3.78	0.8	4420		
19054		3.96	1.4	3490		
19055		0.06	1.1	1890		
19056		3.56	0.6	1335		
19057		3.74	<0.5	2420		
19058		3.46	0.5	2380		
19059		4.08	0.5	4270		
19060		3.74	>100	>10000	137	1.40

Comments: Due to the high copper content of the sample, we would recommend to analyze them by high grade assay. Carry over expected.



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Aurora Laboratory Services Ltd.
 212 Brooksbank Avenue
 North Vancouver BC V7J 2C1 Canada
 Phone: 604 984 0221 Fax: 604 984 0218

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Page #: 6 - A
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 Date : 25-Sep-2002
 Account: QAQ

Project : SUSTUT-2002

CERTIFICATE OF ANALYSIS	VA02003177
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Ag-AA62 Ag ppm 1	Cu-AA62 Cu % 0.01
19061		3.40	0.9	1765		
19062		3.66	<0.5	1670		
19063		3.00	1.0	3290		
19064		3.56	<0.5	1405		
19065		3.32	0.7	1485		
19066		4.12	0.9	2070		
19067		2.02	<0.5	661		
19068		2.92	<0.5	166		
19069		3.68	<0.5	837		
19070		3.58	<0.5	532		
19071		3.28	<0.5	603		
19072		3.78	<0.5	366		
19073		3.42	<0.5	771		
19074		3.22	<0.5	141		
19075		0.04	<0.5	91		
19076		2.12	<0.5	116		
19077		3.78	<0.5	98		
19078		3.60	<0.5	103		
19079		3.72	<0.5	89		
19080			<0.5	93		
19081		3.46	1.5	>10000		1.34
19082		3.78	28.2	>10000		4.30
19083		3.80	10.2	>10000		2.05
19084		3.76	9.6	>10000		2.32
19085		3.94	14.6	>10000		4.20
19086		4.14	<0.5	888		
19087		3.76	<0.5	186		
19088		3.86	<0.5	113		
19089		3.94	0.8	3820		
19090		3.38	2.3	6160		
19091		4.20	2.7	>10000		1.57
19092		4.00	0.9	3620		
19093		4.40	<0.5	116		
19094		3.78	<0.5	109		
19095		0.06	<0.5	90		
19096		3.60	<0.5	101		
19097		1.58	<0.5	94		
19098		5.10	<0.5	104		
19099		5.08	<0.5	102		
19100		2.98	<0.5	98		

Comments: Due to the high copper content of the sample, we would recommend to analyze them by high grade assay.
 Carry over expected.



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Aurora Laboratory Services Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

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WEST VANCOUVER BC V7V 1H9

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Project : SUSTUT-2002

CERTIFICATE OF ANALYSIS VA02003177

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Ag-AA62 Ag ppm 1	Cu-AA62 Cu % 0.01
19101		5.66	<0.5	136		
19102		4.24	<0.5	85		
19103		4.60	0.6	3160		
19104		6.00	1.3	6610		
19105		5.30	<0.5	630		
19106		4.20	<0.5	241		
19107		5.90	<0.5	278		
19108		4.72	<0.5	122		
19109		5.10	<0.5	191		
19110		5.02	<0.5	378		
19111		5.14	<0.5	165		
19112		5.46	<0.5	339		
19113		4.54	<0.5	1665		
19114		4.88	0.9	2270		
19115		0.06	1.6	9920		
19116		4.52	2.7	>10000		2.70
19117		5.10	1.0	8020		
19118		5.06	1.0	4910		
19119		4.22	0.7	3630		
19120		5.38	>100	>10000	135	1.41
19121		4.66	1.2	4450		
19122		5.22	0.5	3390		
19123		5.10	0.9	7160		
19124		5.00	1.4	>10000		1.62
19125		4.92	4.5	>10000		3.08
19126		5.52	4.4	7110		
19127		4.38	4.5	>10000		1.18
19128		5.66	8.4	>10000		3.13
19129		4.20	12.4	>10000		3.73
19130		5.38	4.9	>10000		4.03
19131		6.50	5.3	>10000		3.75
19132		4.54	11.8	>10000		4.77
19133		1.16	6.5	>10000		3.38
19134		3.22	4.7	>10000		1.57
19135		0.04	<0.5	142		
19136		3.30	<0.5	110		
19137		3.68	<0.5	144		
19138		2.56	<0.5	110		
19139		2.82	<0.5	295		
19140			<0.5	255		

Comments: Due to the high copper content of the sample, we would recommend to analyze them by high grade assay. Carry over expected.



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EXCELLENCE IN ANALYTICAL CHEMISTRY

Aurora Laboratory Services Ltd.
 212 Brooksbank Avenue
 North Vancouver BC V7J 2C1 Canada
 Phone: 604 984 0221 Fax: 604 984 0218

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Page #: 2 - A
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 Date : 26-Sep-2002
 Account: QAQ

Project : SUSTUT-2002

CERTIFICATE OF ANALYSIS	VA02003179
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Ag-AA62 Ag ppm 1	Cu-AA62 Cu % 0.01
19141		3.70	<0.5	100		
19142		3.20	<0.5	310		
19143		3.14	0.5	237		
19144		2.14	<0.5	173		
19145		3.50	<0.5	141		
19146		2.18	<0.5	173		
19147		3.70	<0.5	121		
19148		4.28	<0.5	172		
19149		3.28	<0.5	153		
19150		3.80	<0.5	412		
19151		4.40	<0.5	857		
19152		3.40	0.8	2360		
19153		2.86	2.0	6740		
19154		3.58	0.8	1935		
19155		3.62	0.8	3130		
19156		4.00	0.7	3300		
19157		3.62	0.8	4940		
19158		3.50	0.9	2270		
19159		3.98	0.8	2730		
19160		0.06	>100	>10000	134	1.41
19161		3.38	1.5	4190		
19162		3.50	1.0	2850		
19163		3.96	1.3	8130		
19164		2.78	0.9	4880		
19165		3.32	0.9	5210		
19166		4.72	0.5	2750		
19167		3.10	0.7	>10000		1.68
19168		4.50	1.5	>10000		3.64
19169		3.64	1.4	>10000		2.55
19170		3.64	<0.5	4520		
19171		2.84	<0.5	2010		
19172		4.76	<0.5	269		
19173		4.50	<0.5	459		
19174		5.06	<0.5	745		
19175		4.64	0.7	3490		
19176		5.02	0.7	2860		
19177		4.70	0.8	2700		
19178		5.22	1.2	5300		
19179		4.64	0.7	6890		
19180			1.0	7010		



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Aurora Laboratory Services Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

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Project : SUSTUT-2002

CERTIFICATE OF ANALYSIS	VA02003179
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Ag-AA62 Ag ppm 1	Cu-AA62 Cu % 0.01
19181		5.16	1.1	4550		
19182		4.86	0.9	3460		
19183		4.12	1.7	6010		
19184		4.78	2.7	9630		
19185		5.18	1.7	4650		
19186		4.82	1.3	4330		
19187		4.70	1.2	4780		
19188		5.36	0.9	3330		
19189		4.72	0.9	5400		
19190		4.90	0.6	3810		
19191		4.62	1.9	>10000		1.34
19192		5.10	1.9	>10000		1.18
19193		4.80	4.8	>10000		2.00
19194		4.94	3.4	7480		
19195		4.84	<0.5	550		
19196		5.16	<0.5	118		
19197		5.02	<0.5	71		
19198		4.58	<0.5	99		
19199		7.04	<0.5	103		
19200		0.04	<0.5	109		
19201		4.14	<0.5	113		
19202		5.86	<0.5	370		
19203		3.48	<0.5	734		
19204		5.06	0.8	2750		
19205		4.84	0.8	3690		
19206		4.90	0.8	2840		
19207		4.62	0.8	3140		
19208		5.02	0.8	2420		
19209		3.66	<0.5	2310		
19210		6.18	1.1	>10000		1.13
19211		4.58	0.9	8080		
19212		4.92	0.8	4580		
19213		4.40	0.5	2380		
19214		4.84	1.5	9540		
19215		4.86	0.9	3780		
19216		4.70	1.5	5820		
19217		5.24	8.5	>10000		4.34
19218		3.92	3.3	6820		
19219		5.38	14.9	>10000		3.98
19220		0.06	>100	>10000	139	1.41



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Ag-AA62 Ag ppm 1	Cu-AA62 Cu % 0.01
19221		4.90	7.8	>10000		4.08
19222		4.32	5.1	>10000		2.01
19223		5.40	<0.5	177		
19224		4.74	<0.5	213		
19225		4.58	<0.5	222		
19226		3.36	<0.5	313		
19227		5.82	<0.5	126		
19228		4.94	<0.5	103		
19229		4.64	<0.5	116		
19230		4.86	<0.5	78		
19231		4.90	<0.5	128		
19232		4.58	<0.5	125		
19233		5.92	<0.5	118		
19234		4.70	<0.5	260		
19235		4.72	<0.5	640		
19236		4.40	0.9	3460		
19237		4.90	1.4	4380		
19238		4.48	0.9	2710		
19239		4.76	13.1	2470		
19240			5.1	2840		
19241		4.86	3.6	8350		
19242		4.78	1.6	7360		
19243		4.60	4.5	3160		
19244		4.16	3.2	2910		
19245		4.22	0.7	6390		
19246		5.22	<0.5	4890		
19247		4.62	0.5	1620		
19248		4.70	0.6	5670		
19249		5.88	0.9	>10000		3.02
19250		4.00	0.9	>10000		6.04
19251		4.58	1.1	>10000		3.54
19252		4.74	23.0	>10000		3.40
19253		5.18	0.9	>10000		1.30
19254		5.14	1.0	>10000		2.19
19255		4.12	1.8	10000		1.08
19256		4.74	5.6	>10000		1.14
19257		2.88	8.5	>10000		4.02
19258		5.92	<0.5	151		
19259		4.42	0.6	2560		
19260		0.06	>100	>10000	138	1.43



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Ag-AA62 Ag ppm 1	Cu-AA62 Cu % 0.01
19261		5.06	1.0	4430		
19262		4.14	1.0	4140		
19263		5.00	1.0	>10000		1.25
19264		4.76	1.6	>10000		1.83
19265		4.72	4.2	>10000		2.51
19266		4.68	1.6	2650		
19267		4.50	1.0	2390		
19268		4.80	0.9	942		
19269		4.56	4.3	>10000		2.36
19270		4.90	3.6	>10000		1.15
19271		4.80	0.8	>10000		2.51
19272		4.44	0.8	>10000		2.06
19273		4.96	0.9	>10000		3.52
19274		4.50	0.8	>10000		3.44
19275		5.08	0.5	>10000		4.94
19276		5.16	1.0	>10000		1.76
19277		4.42	1.0	3790		
19278		4.60	0.7	2710		
19279		4.66	0.8	>10000		1.35
19280			0.8	>10000		1.29
19281		5.02	<0.5	169		
19282		4.70	<0.5	106		
19283		4.80	0.7	1690		
19284		4.90	0.7	2040		
19285		4.38	1.0	3000		
19286		4.52	0.5	2570		
19287		5.00	0.9	5670		
19288		4.82	0.6	4810		
19289		4.86	0.9	7900		
19290		5.14	2.1	8930		
19291		5.40	2.1	7170		
19292		4.46	2.7	>10000		1.64
19293		4.96	9.6	>10000		1.39
19294		4.60	11.8	>10000		2.74
19295		4.68	8.2	>10000		3.66
19296		4.54	7.8	>10000		3.26
19297		4.68	0.7	217		
19298		3.74	<0.5	137		
19299		5.84	<0.5	107		
19300		0.06	<0.5	101		



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Ag-AA62 Ag ppm 1	Cu-AA62 Cu % 0.01
19301		4.48	0.8	109		
19302		5.02	3.4	3070		
19303		4.58	1.1	1265		
19304		4.50	3.5	133		
19305		4.48	16.2	123		
19306		4.14	4.0	821		
19307		4.36	6.1	1885		
19308		4.54	3.8	3690		
19309		4.44	7.8	7820		
19310		4.46	13.5	6710		
19311		5.48	1.0	5600		
19312		4.78	3.1	>10000		1.89
19313		4.58	2.5	5220		
19314		4.98	2.7	8200		
19315		4.38	1.6	3660		
19316		4.70	1.7	5500		
19317		4.76	2.1	>10000		1.10
19318		5.08	1.8	6570		
19319		4.78	8.6	>10000		4.10
19320		0.06	>100	>10000	131	1.40
19321		4.72	14.0	>10000		3.22
19322		4.72	6.9	>10000		2.81
19323		4.72	5.7	>10000		2.00
19324		5.06	7.6	>10000		2.42
19325		4.54	0.5	1165		
19326		4.86	<0.5	152		
19327		4.84	<0.5	140		
19328		4.56	<0.5	124		
19329		4.46	<0.5	110		
19330		4.70	<0.5	1140		
19331		4.60	<0.5	121		
19332		4.48	<0.5	169		
19333		3.28	<0.5	297		
19334		3.82	<0.5	469		
19335		3.44	<0.5	737		
19336		3.42	<0.5	941		
19337		3.44	<0.5	1550		
19338		3.56	0.6	4190		
19339		3.70	0.5	3610		
19340			0.5	3290		



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CERTIFICATE OF ANALYSIS VA02003179

Sample Description	Method Analyte Units LOR	WEI-21	Ag-AA61	Cu-AA61	Ag-AA62	Cu-AA62
		Recvd Wt kg 0.02	Ag ppm 0.5	Cu ppm 1	Ag ppm 1	Cu % 0.01
19341		3.44	1.5	>10000		1.47
19342		3.48	0.8	7300		
19343		3.56	3.7	>10000		2.38
19344		3.30	3.4	6330		
19345		3.58	2.1	6250		
19346		3.38	1.6	4290		
19347		3.30	1.9	5890		
19348		3.98	6.2	>10000		2.34
19349		3.34	3.2	>10000		1.80
19350		3.46	6.1	>10000		2.23
19351		3.78	5.5	>10000		2.28
19352		2.96	<0.5	1180		
19353		3.84	3.9	>10000		1.15
19354		4.12	3.0	7880		
19355		1.92	<0.5	937		
19356		3.50	<0.5	996		
19357		3.52	2.7	>10000		1.31
19358		3.30	0.9	4430		
19359		3.60	0.8	4430		
19360		0.06	>100	>10000	140	1.42
19361		3.40	1.2	5200		
19362		3.64	3.9	7260		
19363		3.72	4.3	>10000		1.14
19364		3.54	2.7	5630		
19365		3.28	1.2	2300		
19366		3.42	1.4	5330		
19367		3.92	2.0	7700		
19368		3.88	1.3	2690		
19369		3.08	3.1	7550		
19370		3.26	2.7	5320		
19371		3.24	1.7	2200		
19372		4.40	3.4	>10000		1.84
19373		3.00	1.6	2760		
19374		3.44	<0.5	111		
19375		3.94	<0.5	111		
19376		3.36	<0.5	127		
19377		4.26	<0.5	115		
19378		1.00	<0.5	1385		
19379		3.24	<0.5	1120		
19380			0.5	1100		



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CERTIFICATE OF ANALYSIS VA02003210

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Ag-AA62 Ag ppm 1	Cu-AA62 Cu % 0.01
19381		2.94	1.1	3200		
19382		3.36	2.1	>10000		1.11
19383		2.62	1.1	>10000		1.14
19384		5.20	1.5	>10000		1.68
19385		3.62	1.5	7490		
19386		3.66	3.6	>10000		1.45
19387		3.62	3.0	>10000		1.82
19388		3.54	2.9	8390		
19389		3.56	2.8	4860		
19390		3.70	1.5	2530		
19391		3.60	1.8	7900		
19392		3.44	13.0	>10000		4.73
19393		3.60	3.9	>10000		1.41
19394		3.62	12.9	>10000		3.44
19395		3.68	3.6	>10000		1.28
19396		3.36	0.8	3220		
19397		3.50	<0.5	360		
19398		3.10	<0.5	130		
19399		3.78	<0.5	117		
19400		0.06	<0.5	108		
19401		4.72	0.5	181		
19402		1.02	<0.5	1045		
19403		4.36	<0.5	244		
19404		3.34	<0.5	127		
19405		3.58	<0.5	98		
19406		3.00	<0.5	87		
19407		2.86	<0.5	98		
19408		3.44	<0.5	133		
19409		3.70	6.8	>10000		3.10
19410		3.50	<0.5	425		
19411		3.36	<0.5	479		
19412		3.60	<0.5	120		
19413		4.18	<0.5	114		
19414		3.32	<0.5	106		
19415		2.62	<0.5	96		
19416		2.68	<0.5	97		
19417		4.02	<0.5	129		
19418		3.52	<0.5	102		
19419		3.36	<0.5	104		
19420		0.06	>100	>10000	137	1.40

Comments: Due to the high copper content of the sample, we would recommend to analyze them by high grade assay. Carry over expected.



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CERTIFICATE OF ANALYSIS	VA02003210
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Ag-AA62 Ag ppm 1	Cu-AA62 Cu % 0.01
19421		3.58	<0.5	128		
19422		3.46	<0.5	104		
19423		3.34	<0.5	117		
19424		3.44	<0.5	110		
19425		3.48	<0.5	98		
19426		2.86	<0.5	101		
19427		4.14	<0.5	128		
19428		1.48	<0.5	430		
19429		3.46	<0.5	589		
19430		3.72	<0.5	2660		
19431		3.20	6.7	>10000		2.81
19432		3.58	14.5	>10000		5.14
19433		3.76	10.1	>10000		3.81
19434		3.36	1.6	>10000		1.48
19435		3.50	1.7	>10000		3.42
19436		3.98	2.2	>10000		2.34
19437		3.70	2.4	>10000		1.25
19438		4.14	2.1	3990		
19439		3.38	3.8	7420		
19440			3.4	7530		
19441		3.36	2.7	6760		
19442		3.44	1.6	6400		
19443		3.84	12.5	>10000		3.70
19444		3.82	11.3	>10000		3.37
19445		3.68	4.4	>10000		2.71
19446		3.56	12.2	>10000		4.19
19447		3.42	2.5	6960		
19448		3.58	<0.5	161		
19449		3.54	<0.5	118		
19450		3.60	<0.5	138		
19451		3.86	<0.5	128		
19452		3.02	<0.5	129		
19453		3.18	<0.5	751		
19454		3.44	<0.5	906		
19455		3.70	<0.5	3130		
19456		3.56	2.2	>10000		2.30
19457		3.64	7.2	>10000		3.31
19458		3.96	4.3	>10000		1.53
19459		3.86	5.1	>10000		1.87
19460		0.06	>100	>10000	140	1.42

Comments: Due to the high copper content of the sample, we would recommend to analyze them by high grade assay. Carry over expected.



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CERTIFICATE OF ANALYSIS VA02003210

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Ag-AA62 Ag ppm 1	Cu-AA62 Cu % 0.01
19461		3.88	14.0	>10000		4.61
19462		3.64	16.3	>10000		3.26
19463		3.96	9.3	>10000		2.23
19464		3.54	16.2	>10000		2.72
19465		3.90	2.9	>10000		1.44
19466		3.60	1.5	3330		
19467		3.58	1.2	2320		
19468		3.92	3.3	>10000		1.27
19469		3.60	3.6	>10000		1.24
19470		3.92	<0.5	136		
19471		2.90	<0.5	339		
19472		3.44	<0.5	109		
19473		3.24	<0.5	203		
19474		3.56	<0.5	163		
19475		3.24	<0.5	192		
19476		1.26	<0.5	304		
19477		3.34	<0.5	1070		
19478		3.84	<0.5	1520		
19479		3.16	1.9	4380		
19480			1.9	4150		
19481		3.42	2.0	2910		
19482		3.42	5.1	>10000		3.56
19483		3.62	3.4	>10000		1.30
19484		3.40	1.1	5720		
19485		3.52	3.7	8480		
19486		3.82	<0.5	134		
19487		3.36	<0.5	104		
19488		3.16	<0.5	132		
19489		3.04	<0.5	105		
19490		3.48	<0.5	134		
19491		4.04	<0.5	136		
19492		3.84	<0.5	105		
19493		3.66	<0.5	125		
19494		3.72	<0.5	113		
19495		2.12	<0.5	117		

Comments: Due to the high copper content of the sample, we would recommend to analyze them by high grade assay. Carry over expected.



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CERTIFICATE OF ANALYSIS VA02005010

Sample Description	Method Analyte Units LOR	Ag-AA61	Cu-AA61	Cu-AA62
		Ag ppm 0.5	Cu ppm 1	Cu % 0.01
19330		<0.5	1090	
19352		<0.5		0.13
19372		3.3		1.84



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QC CERTIFICATE OF ANALYSIS

VA02005010

Sample Description	Method Analyte Units LOR	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Cu-AA62 Cu % 0.01
STANDARDS				
BMAA-02		14.5		
BMAA-02			4190	
Target Range			3980 - 4560	
CO-ASSAY				5.70
Target Range				5.49 - 5.91
CU-106				1.39
Target Range				1.37 - 1.49
G2000		3.4		
G2000		3.1		
G2000		3.5		
G2000			297	
Target Range			281 - 325	
GS01-2		24.1		
GS01-2		22.1		
GS01-2		20.4		
GS01-2			5320	
Target Range			5630 - 6490	
BLANKS				
BLANK		<0.5		
BLANK		<0.5		
BLANK		<0.5		
BLANK				<0.01
BLANK			1	
Target Range			<1 - 2	



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QC CERTIFICATE OF ANALYSIS

VA02005010

Sample Description	Method Analyte Units LOR	Ag-AA61 Ag ppm 0.5	Cu-AA61 Cu ppm 1	Cu-AA62 Cu % 0.01
PREP BLANKS AND DUPLICATES				
19330		<0.5	1090	
DUP		<0.5	1125	
Target Range		<0.5 - 1.0	1050 - 1165	
19372		3.3		1.84
DUP		3.2		1.89
Target Range		2.1 - 4.4		1.80 - 1.93
DUP		2.1		
Target Range		1.0 - 3.2		



ASSAY CERTIFICATE



Doublestar Resources Ltd. File # A204670 Page 1
305 - 1549 Marine Drive, West Vancouver BC V7V 1H9 Submitted by: Paul D. Gray

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	SR	CD	SB	BI	CA	P	CR	MG	AL	NA	K	W	Hg
	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
16653	<.001	.233	<.01	.01	2.1	.001	.002	.10	5.25	<.01	.002	<.001	.001	<.01	3.36	.101	.005	2.11	3.03	.05	.08	<.001	<.001
16693	<.001	.276	<.01	.01	<.3	.001	.002	.09	4.85	<.01	.002	<.001	.002	<.01	3.84	.108	.005	1.89	3.13	.09	.03	<.001	<.001
16701	<.001	.457	<.01	.01	.4	.001	.002	.12	5.14	<.01	.005	.003	<.001	<.01	3.13	.108	.003	2.27	3.64	.33	.07	<.001	<.001
16704	<.001	.014	<.01	.01	<.3	.001	.002	.15	5.54	<.01	.012	<.001	<.001	<.01	3.02	.111	.002	2.98	4.85	.32	.11	<.001	<.001
16705	<.001	.010	<.01	.01	<.3	.003	.002	.14	5.72	<.01	.025	<.001	.001	<.01	3.26	.089	.006	2.98	4.08	.24	.10	<.001	<.001
16707	<.001	.011	<.01	.01	<.3	.001	.002	.10	6.47	<.01	.004	.001	<.001	<.01	2.96	.110	.003	2.25	3.07	.09	.06	<.001	<.001
16739	<.001	.152	<.01	.01	1.2	.001	.002	.08	4.95	<.01	.002	<.001	.001	<.01	3.05	.109	.003	2.05	2.68	.05	.08	<.001	<.001
16744	<.001	3.208	<.01	.01	4.7	.001	.002	.08	3.27	<.01	.005	<.001	.001	<.01	3.80	.107	.005	1.73	2.84	.02	.03	<.001	<.001
19016	<.001	.289	<.01	.01	.6	.002	.002	.09	5.06	<.01	.002	<.001	<.001	<.01	4.00	.108	.004	1.97	3.30	.04	.02	<.001	<.001
19035	<.001	.340	<.01	.01	.6	.001	.002	.10	4.83	<.01	.003	<.001	<.001	<.01	5.83	.088	.004	2.27	4.83	.03	<.01	<.001	<.001
19039	<.001	4.743	.01	.03	14.4	.002	.003	.13	6.01	<.01	.002	.009	.002	<.01	3.81	.095	.008	3.39	5.14	.03	.01	<.001	<.001
19057	<.001	.248	<.01	.01	<.3	.002	.002	.10	5.22	<.01	.002	<.001	<.001	<.01	3.53	.113	.003	2.14	3.34	.06	.04	<.001	<.001
19062	<.001	.168	<.01	.01	<.3	.002	.002	.11	5.57	<.01	.002	<.001	.001	<.01	3.98	.114	.005	2.46	3.68	.09	.03	<.001	<.001
19069	<.001	.082	<.01	.01	<.3	.002	.002	.14	4.11	<.01	.011	<.001	<.001	<.01	2.33	.098	.005	2.54	4.11	1.18	.14	<.001	<.001
RE 19069	<.001	.084	<.01	.01	<.3	.001	.002	.14	4.26	<.01	.011	<.001	<.001	<.01	2.34	.098	.005	2.61	4.21	1.22	.14	<.001	<.001
19102	<.001	.009	<.01	.01	<.3	.001	.002	.14	5.93	<.01	.007	<.001	.001	<.01	2.68	.107	.004	2.70	4.07	.28	.05	<.001	<.001
19107	<.001	.030	<.01	.01	<.3	.002	.002	.14	5.55	<.01	.006	<.001	<.001	<.01	2.05	.112	.004	2.62	3.00	.07	.02	<.001	<.001
19111	<.001	.017	<.01	.01	<.3	.002	.002	.13	5.47	<.01	.004	<.001	<.001	<.01	2.61	.115	.005	2.16	2.48	.07	.04	<.001	<.001
19133	<.001	3.253	<.01	.01	6.7	.002	.002	.09	3.46	<.01	.008	<.001	<.001	<.01	4.15	.108	.003	1.61	2.61	.04	.03	<.001	<.001
19139	<.001	.029	<.01	.01	<.3	.002	.002	.12	5.88	<.01	.002	<.001	<.001	<.01	2.27	.105	.003	2.43	3.15	.04	.02	<.001	<.001
19140	<.001	.027	<.01	.01	<.3	.002	.003	.12	6.15	<.01	.002	<.001	<.001	<.01	2.33	.111	.004	2.52	3.31	.06	.03	.001	<.001
19159	<.001	.308	<.01	.01	<.3	.002	.002	.09	5.67	<.01	.002	<.001	<.001	<.01	3.92	.110	.004	2.11	3.34	.06	.03	<.001	<.001
19169	<.001	2.251	<.01	.01	.7	.001	.002	.08	4.54	<.01	.003	<.001	<.001	<.01	4.03	.110	.004	1.90	3.20	.03	.02	<.001	<.001
19172	<.001	.027	<.01	.01	<.3	.003	.002	.13	5.05	<.01	.003	<.001	<.001	<.01	2.72	.103	.004	2.22	2.26	.03	.03	<.001	<.001
19175	<.001	.376	<.01	.01	<.3	.002	.002	.09	5.26	<.01	.002	<.001	<.001	<.01	3.31	.105	.004	2.00	2.66	.05	.02	<.001	<.001
19176	<.001	.282	<.01	.01	<.3	.003	.002	.09	5.59	<.01	.002	<.001	<.001	<.01	3.77	.104	.004	1.96	3.22	.03	.01	<.001	<.001
19187	<.001	.470	<.01	.01	.6	.002	.002	.09	5.22	<.01	.002	<.001	<.001	<.01	4.10	.107	.004	2.00	3.29	.05	.01	<.001	<.001
19201	<.001	.011	<.01	.01	<.3	.003	.002	.13	5.35	<.01	.006	<.001	<.001	<.01	2.49	.099	.005	2.40	2.35	.08	.05	<.001	<.001
19202	<.001	.037	<.01	.01	<.3	.002	.002	.13	4.89	<.01	.009	<.001	<.001	<.01	2.85	.098	.004	2.26	2.35	.06	.04	<.001	<.001
19209	<.001	.315	<.01	.01	<.3	.002	.002	.10	5.76	<.01	.002	<.001	<.001	<.01	4.01	.100	.005	2.09	3.29	.08	.03	<.001	<.001
19219	<.001	3.799	<.01	.01	15.3	.002	.003	.09	4.21	<.01	.003	.002	<.001	<.01	4.49	.096	.005	1.78	2.74	.01	.03	<.001	<.001
19228	<.001	.009	<.01	.01	<.3	.002	.002	.10	6.28	<.01	.002	<.001	<.001	<.01	3.48	.108	.004	2.19	3.55	.04	.03	<.001	<.001
19230	<.001	.007	<.01	.01	<.3	.002	.002	.09	5.60	<.01	.003	<.001	<.001	<.01	2.73	.125	.002	1.90	2.89	.05	.06	<.001	<.001
19243	<.001	.347	<.01	.01	.3	.002	.002	.10	5.55	<.01	.002	<.001	<.001	<.01	4.02	.107	.004	2.27	3.65	.02	.01	<.001	<.001
19259	<.001	.272	<.01	.01	.7	.002	.002	.09	4.93	<.01	.002	<.001	<.001	<.01	3.44	.102	.003	1.85	2.93	.07	.02	<.001	<.001
STANDARD R-1	.087	.839	1.29	2.16	102.5	.024	.024	.08	6.56	.93	.029	.046	.154	.03	1.35	.105	.025	.94	.94	.15	.38	.007	<.001

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: ROCK PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 22 2002 DATE REPORT MAILED: Nov 6/02 SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data [Signature] FA



SAMPLE#	MO %	CU %	PB %	ZN %	AG gm/mt	NI %	CO %	MN %	FE %	AS %	SR %	CD %	SB %	BI %	CA %	P %	CR %	MG %	AL %	NA %	K %	W %	Hg %
19274	.001	3.047	.03	.05	13.0	.002	.002	.09	4.29	<.01	.002	.055	<.001	<.01	4.14	.105	.004	1.38	2.74	.03	.08	<.001	<.001
19283	<.001	.174	<.01	.01	<.3	.003	.002	.11	5.64	<.01	.002	<.001	<.001	<.01	3.44	.104	.007	2.20	2.82	.08	.04	<.001	<.001
19287	<.001	.594	<.01	.01	.8	.002	.002	.09	5.32	<.01	.002	<.001	<.001	<.01	4.11	.104	.006	1.91	3.02	.06	.03	<.001	<.001
19296	<.001	2.889	<.01	.01	9.1	.002	.002	.09	4.58	<.01	.003	.016	<.001	<.01	4.32	.105	.004	1.58	2.94	.05	.06	<.001	<.001
19299	.003	.010	<.01	.03	.7	.002	.002	.09	5.17	<.01	.004	.001	<.001	<.01	3.78	.100	.003	1.57	2.98	.09	.09	<.001	<.001
19302	.013	.317	.05	.19	5.0	.001	.002	.10	4.77	<.01	.003	.090	<.001	<.01	3.78	.106	.004	1.34	2.95	.10	.14	<.001	<.001
19304	.001	.014	<.01	.02	.3	.002	.002	.10	5.16	<.01	.005	.005	<.001	<.01	4.12	.105	.004	1.51	2.90	.09	.10	<.001	<.001
19337	<.001	.171	<.01	.01	.6	.003	.002	.10	5.54	<.01	.002	<.001	<.001	<.01	3.79	.097	.006	2.04	3.33	.06	.01	<.001	<.001
19340	<.001	.343	<.01	.01	.7	.002	.002	.09	5.49	<.01	.002	<.001	<.001	<.01	3.43	.109	.005	1.98	3.09	.10	.05	<.001	<.001
19379	<.001	.109	<.01	.01	.8	.003	.002	.12	5.57	<.01	.003	<.001	<.001	<.01	2.15	.100	.005	2.52	2.41	.07	.07	<.001	<.001
19408	<.001	.012	<.01	.01	<.3	.003	.003	.15	6.33	<.01	.004	.002	<.001	<.01	2.54	.117	.007	2.02	3.24	.03	.03	<.001	<.001
19418	<.001	.008	<.01	.01	.3	.002	.002	.10	5.37	<.01	.003	<.001	<.001	<.01	3.57	.106	.003	1.64	3.17	.05	.05	<.001	<.001
19427	<.001	.010	<.01	.01	.3	.003	.003	.12	5.94	<.01	.011	<.001	<.001	<.01	3.39	.106	.004	2.57	3.34	.16	.05	<.001	<.001
19429	<.001	.057	<.01	.01	.7	.003	.002	.15	5.57	<.01	.002	.001	<.001	<.01	2.86	.097	.005	2.66	2.43	.04	.05	<.001	<.001
19438	<.001	.387	<.01	.01	2.7	.002	.003	.09	5.79	<.01	.002	<.001	<.001	<.01	3.21	.101	.005	2.27	3.08	.06	.03	<.001	<.001
RE 19438	<.001	.395	<.01	.01	2.3	.002	.003	.10	5.87	<.01	.002	<.001	.001	<.01	3.26	.103	.005	2.31	3.12	.04	.03	<.001	<.001
19447	<.001	.659	<.01	.01	3.3	.002	.002	.11	4.94	<.01	.002	.032	<.001	<.01	4.31	.102	.003	1.39	2.75	.03	.05	<.001	<.001
19462	<.001	2.949	<.01	.01	18.0	.002	.003	.09	4.82	<.01	.002	.003	<.001	<.01	4.85	.100	.004	1.50	2.70	.04	.04	<.001	<.001
19464	<.001	2.496	<.01	.01	16.3	.002	.002	.08	5.00	<.01	.003	<.001	<.001	<.01	4.62	.099	.005	1.84	3.09	.04	.03	<.001	<.001
19471	<.001	.030	<.01	.01	1.2	.001	.002	.11	5.13	<.01	.003	<.001	<.001	<.01	4.36	.111	.003	1.78	3.63	.04	.04	<.001	<.001
19475	<.001	.017	<.01	.01	1.1	<.001	.002	.12	5.11	<.01	.005	<.001	<.001	<.01	2.98	.128	.003	2.05	3.24	.02	.04	<.001	<.001
19483	<.001	1.206	<.01	.01	3.7	.003	.003	.11	5.55	<.01	.002	<.001	<.001	<.01	4.32	.104	.005	2.33	2.96	.04	.03	<.001	<.001
19489	.001	.009	<.01	.01	1.4	.002	.002	.11	5.47	<.01	.003	<.001	<.001	<.01	4.27	.104	.004	1.81	2.81	.06	.06	<.001	<.001
19495	.001	.009	<.01	.01	1.0	.003	.002	.13	5.83	<.01	.008	<.001	<.001	<.01	3.00	.098	.005	2.74	3.51	.22	.06	<.001	<.001
19478-S	.008	1.324	.02	.02	137.5	.001	.001	.02	2.28	.01	.018	<.001	.031	<.01	.95	.023	.006	.22	.43	.01	.15	<.001	<.001
19479-B	<.001	.009	<.01	.01	1.2	.001	.002	.05	3.57	<.01	.012	<.001	.001	<.01	1.94	.060	.003	1.02	3.29	.26	.53	<.001	<.001
STANDARD R-1	.086	.829	1.27	2.12	100.0	.024	.024	.08	6.58	.93	.028	.046	.153	.03	1.35	.107	.024	.94	.91	.16	.37	.007	<.001

Sample type: ROCK PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



ASSAY CERTIFICATE



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305 - 1549 Marine Drive, West Vancouver BC V7V 1H9 Submitted by: Paul D. Gray

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %
16653	<.001	.237	<.02	.01	.5	.001	.002	.13	6.10	.02	<.001	<.01	<.01	5.38	.10	.008	2.36	7.49	3.16	1.13	<.01
16693	<.001	.278	<.02	.01	<.3	.002	.002	.11	5.59	.02	<.001	<.01	<.01	5.49	.10	.006	1.86	7.44	3.25	.91	<.01
16701	<.001	.447	<.02	.01	.5	.001	.002	.14	5.75	.02	.003	<.01	<.01	4.72	.11	.006	2.59	7.59	2.23	2.17	<.01
16704	<.001	.013	<.02	.01	<.3	<.001	.002	.17	6.28	.04	<.001	<.01	<.01	4.27	.12	.003	3.23	8.00	1.37	2.80	<.01
16705	<.001	.011	<.02	.01	<.3	.004	.003	.16	6.55	.04	<.001	<.01	<.01	4.70	.09	.010	3.40	7.20	1.51	2.28	<.01
16707	<.001	.011	<.02	.01	<.3	.002	.003	.13	7.30	.03	.001	<.01	<.01	5.31	.11	.007	3.11	7.53	2.96	.91	<.01
16739	<.001	.151	<.02	.01	.6	.001	.002	.11	5.86	.02	<.001	<.01	<.01	4.83	.10	.005	2.35	7.86	3.09	1.49	<.01
16744	<.001	3.311	<.02	.01	3.8	.001	.002	.11	5.49	.03	<.001	<.01	<.01	7.23	.10	.006	1.63	8.15	2.20	.57	<.01
19016	<.001	.296	<.02	.01	1.0	.001	.002	.11	6.09	.02	<.001	<.01	<.01	6.24	.10	.007	2.13	7.89	3.06	.75	<.01
19035	<.001	.344	<.02	.01	<.3	.001	.002	.11	5.38	.01	<.001	<.01	<.01	6.54	.10	.005	1.94	7.90	2.24	.03	<.01
19039	<.001	4.814	<.02	.03	13.1	.002	.002	.13	6.10	.01	.009	<.01	<.01	4.84	.10	.009	2.79	6.39	1.58	.08	<.01
19057	<.001	.262	<.02	.01	<.3	.001	.002	.12	6.17	.03	<.001	<.01	<.01	5.40	.11	.004	2.25	8.54	3.34	.78	<.01
19062	<.001	.171	<.02	.01	<.3	.002	.003	.12	6.38	.02	<.001	<.01	<.01	5.33	.11	.008	2.56	7.67	3.17	.50	<.01
19069	<.001	.085	<.02	.01	<.3	.003	.002	.17	5.60	.03	<.001	<.01	<.01	4.29	.10	.008	2.75	8.02	1.90	3.10	<.01
RE 19069	<.001	.084	<.02	.01	<.3	.002	.002	.17	5.61	.03	<.001	<.01	<.01	4.31	.10	.008	2.80	8.17	1.92	3.12	<.01
19102	<.001	.010	<.02	.01	<.3	.003	.002	.17	6.53	.02	<.001	<.01	<.01	4.77	.10	.007	3.33	7.70	1.81	2.13	<.01
19107	<.001	.031	<.02	.01	.7	.002	.003	.18	6.84	.02	<.001	<.01	<.01	5.00	.11	.008	3.11	7.84	3.15	.64	<.01
19111	<.001	.019	<.02	.01	.9	.004	.003	.17	6.63	.02	<.001	<.01	<.01	5.24	.11	.011	2.77	7.07	3.10	1.02	<.01
19133	<.001	3.179	<.02	.01	6.1	.001	.001	.11	5.31	.04	<.001	<.01	<.01	7.00	.10	.004	1.43	7.95	2.57	.45	<.01
19139	<.001	.032	<.02	.01	.7	.003	.002	.14	6.57	.02	<.001	<.01	<.01	4.52	.11	.006	2.62	8.19	3.50	.53	<.01
19140	<.001	.028	<.02	.01	.8	.002	.003	.14	6.57	.02	<.001	<.01	<.01	4.33	.10	.007	2.59	7.83	3.43	.56	<.01
19159	<.001	.316	<.02	.01	.9	.002	.002	.12	6.38	.02	<.001	<.01	<.01	5.90	.11	.007	2.48	7.59	3.06	.92	<.01
19169	<.001	2.430	<.02	.01	.4	.002	.002	.10	6.24	.02	<.001	<.01	<.01	6.78	.09	.006	1.93	7.71	2.62	.83	<.01
19172	<.001	.030	<.02	.01	2.1	.003	.003	.18	6.51	.02	<.001	<.01	<.01	5.90	.10	.009	3.07	6.74	2.77	1.34	<.01
19175	<.001	.427	<.02	.01	.5	.003	.002	.13	6.53	.02	<.001	<.01	<.01	6.19	.10	.009	2.78	7.86	3.35	.64	<.01
19176	<.001	.261	<.02	.01	.9	.002	.002	.12	6.17	.02	<.001	<.01	<.01	5.84	.10	.007	2.38	7.96	3.33	.54	<.01
19187	<.001	.494	<.02	.01	2.2	.002	.002	.11	6.11	.02	<.001	<.01	<.01	6.38	.10	.007	2.31	7.92	2.90	.84	<.01
19201	<.001	.011	<.02	.01	.5	.004	.003	.17	6.65	.02	<.001	<.01	<.01	5.38	.09	.011	3.22	7.53	2.58	2.04	<.01
19202	<.001	.037	<.02	.01	.9	.004	.002	.17	6.52	.03	<.001	<.01	<.01	6.12	.10	.010	2.89	7.47	2.51	1.69	<.01
19209	<.001	.316	<.02	.01	1.0	.004	.002	.12	6.20	.03	<.001	<.01	<.01	5.49	.10	.008	2.24	7.37	3.34	.58	<.01
19219	<.001	3.729	<.02	.01	16.1	.003	.002	.11	5.56	.02	.002	<.01	<.01	7.07	.09	.006	1.62	7.44	2.40	.59	<.01
19228	<.001	.014	<.02	.01	1.3	.001	.003	.12	6.80	.02	<.001	<.01	<.01	5.55	.10	.008	2.69	7.14	2.91	.48	<.01
19230	<.001	.010	<.02	.01	1.7	.002	.002	.11	6.09	.03	<.001	<.01	<.01	4.58	.12	.004	2.17	7.58	3.21	.98	<.01
19243	<.001	.335	<.02	.01	2.1	.004	.002	.12	6.20	.02	<.001	<.01	<.01	5.89	.10	.007	2.41	7.63	2.81	.78	<.01
19259	<.001	.270	<.02	.01	1.5	.003	.002	.12	5.94	.03	<.001	<.01	<.01	5.39	.09	.006	2.11	8.00	3.65	.54	<.01
STANDARD R-1	.088	.848	1.29	2.20	103.8	.023	.024	.09	6.67	.06	.045	.16	.02	2.43	.11	.030	1.00	4.82	1.47	1.83	.01

GROUP 7TD - 1.00 GM SAMPLE, 4 ACID (HF-HClO4-HNO3-HCl) DIGESTION TO 100 ML, ANALYSIS BY ICP-ES.

AU - 10 GM REGULAR ASSAY.

- SAMPLE TYPE: ROCK PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 22 2002 DATE REPORT MAILED: Nov 6/02 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data LFA

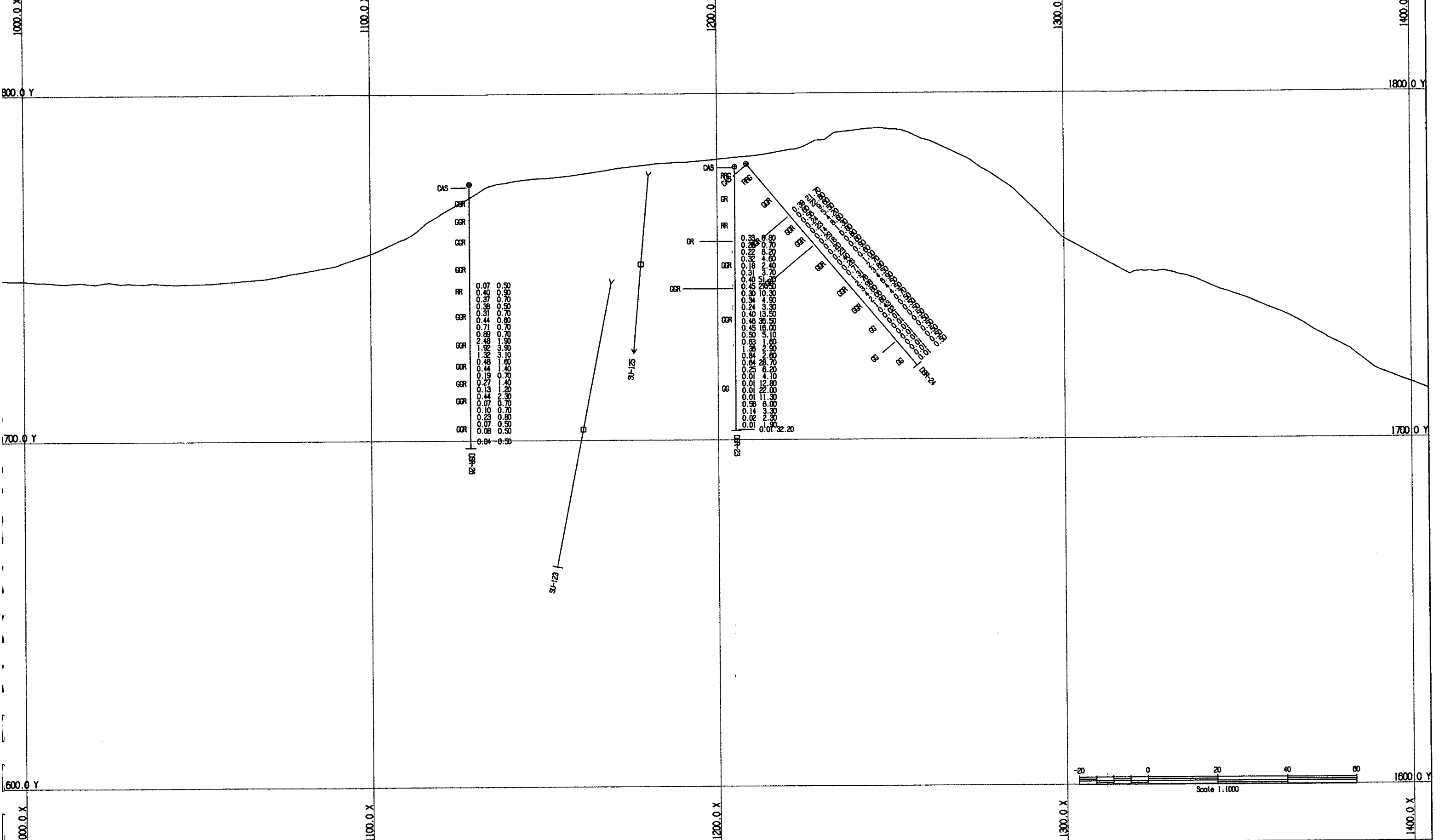


SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %
19274	.001	3.393	.03	.05	12.8	.001	.002	.11	5.35	.02	.052	<.01	<.01	6.72	.09	.004	1.28	7.13	2.57	1.15	<.01
19283	<.001	.179	<.02	.01	1.1	.003	.002	.13	6.48	.02	<.001	<.01	<.01	5.75	.10	.011	2.61	6.29	3.33	.69	<.01
19287	<.001	.613	<.02	.01	1.3	.002	.002	.11	6.02	.02	<.001	<.01	<.01	6.13	.10	.008	2.14	6.79	3.32	.62	<.01
19296	<.001	3.177	<.02	.01	9.0	.002	.002	.11	5.41	.03	.016	<.01	<.01	6.67	.10	.006	1.55	6.19	2.54	1.02	<.01
19299	.003	.010	<.02	.03	.9	.001	.003	.12	5.98	.04	.001	<.01	<.01	6.11	.10	.005	2.11	6.61	2.94	1.28	<.01
19302	.013	.330	.05	.20	4.6	.002	.002	.12	5.32	.04	.086	<.01	<.01	5.80	.10	.005	1.57	6.36	2.95	1.41	<.01
19304	<.001	.013	<.02	.02	1.0	.003	.002	.13	5.94	.04	.005	<.01	<.01	6.54	.11	.007	2.12	6.76	2.82	1.19	<.01
19337	<.001	.179	<.02	.01	.8	.002	.002	.12	6.46	.02	<.001	<.01	<.01	6.18	.10	.011	2.50	6.83	3.15	.31	<.01
19340	<.001	.353	<.02	.01	1.3	.002	.002	.13	6.48	.02	<.001	<.01	<.01	5.91	.10	.008	2.46	7.11	2.99	.97	<.01
19379	<.001	.117	<.02	.01	1.4	.004	.003	.16	6.78	.03	<.001	<.01	<.01	4.61	.10	.011	3.24	6.03	2.89	1.58	<.01
19408	<.001	.012	<.02	.01	.5	.005	.002	.17	7.10	.03	.002	<.01	<.01	5.05	.11	.012	2.52	5.95	3.09	.77	<.01
19418	<.001	.009	<.02	.01	1.3	.001	.002	.13	5.96	.02	<.001	<.01	<.01	5.94	.11	.005	2.07	6.12	2.87	.82	<.01
19427	<.001	.011	<.02	.01	.7	.003	.002	.15	6.60	.05	<.001	<.01	<.01	6.06	.11	.006	3.05	7.02	1.96	1.54	<.01
19429	<.001	.059	<.02	.01	1.2	.002	.003	.18	6.58	.03	.001	<.01	<.01	5.42	.09	.010	3.13	5.46	2.58	1.56	<.01
19438	<.001	.402	<.02	.01	3.2	.004	.002	.12	6.64	.03	<.001	<.01	<.01	5.74	.10	.008	2.55	6.03	3.06	.77	<.01
RE 19438	<.001	.397	<.02	.01	3.0	.002	.002	.12	6.56	.03	<.001	<.01	<.01	5.65	.10	.008	2.54	5.95	3.01	.76	<.01
19447	<.001	.698	<.02	.01	3.2	.001	.002	.14	5.62	.03	.031	<.01	<.01	6.71	.10	.004	1.61	7.18	3.02	1.10	<.01
19462	<.001	3.071	<.02	<.01	17.4	.002	.002	.10	5.40	.02	.003	<.01	<.01	7.01	.09	.006	1.61	6.92	3.04	.66	<.01
19464	<.001	2.599	<.02	.01	16.6	.003	.002	.10	5.82	.02	<.001	<.01	<.01	7.24	.09	.007	1.98	6.29	2.68	.49	<.01
19471	<.001	.033	<.02	.01	.7	.003	.002	.12	5.57	.02	<.001	<.01	<.01	6.47	.10	.004	1.77	8.04	3.14	.33	<.01
19475	<.001	.018	<.02	.01	.7	.001	.002	.13	5.87	.04	<.001	<.01	<.01	4.90	.13	.003	1.79	7.58	3.37	.18	<.01
19483	<.001	1.234	<.02	.01	3.8	.003	.002	.12	5.85	.02	<.001	<.01	<.01	5.73	.10	.007	2.10	6.31	3.42	.20	<.01
19489	<.001	.009	<.02	.01	.5	.002	.003	.13	5.90	.04	<.001	<.01	<.01	6.33	.10	.006	2.12	6.00	2.72	1.09	<.01
19495	<.001	.009	<.02	.01	.6	.002	.002	.15	6.38	.03	<.001	<.01	<.01	5.21	.10	.008	2.96	6.70	1.93	1.73	<.01
19478-S	.009	1.357	.02	.02	130.7	.002	.001	.03	3.04	.03	<.001	.03	<.01	1.23	.02	.005	.47	3.81	.60	1.89	<.01
19479-B	<.001	.010	<.02	.01	1.7	.002	.002	.12	5.74	.03	<.001	<.01	<.01	5.26	.06	.004	2.32	6.09	1.99	.93	<.01
STANDARD R-1	.087	.850	1.27	2.18	100.4	.025	.024	.09	6.77	.06	.043	.15	.02	2.40	.10	.029	.95	4.50	1.47	1.82	.01

Sample type: ROCK PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

APPENDIX - C

**SOUTH EAST ZONE
CROSS SECTIONS**

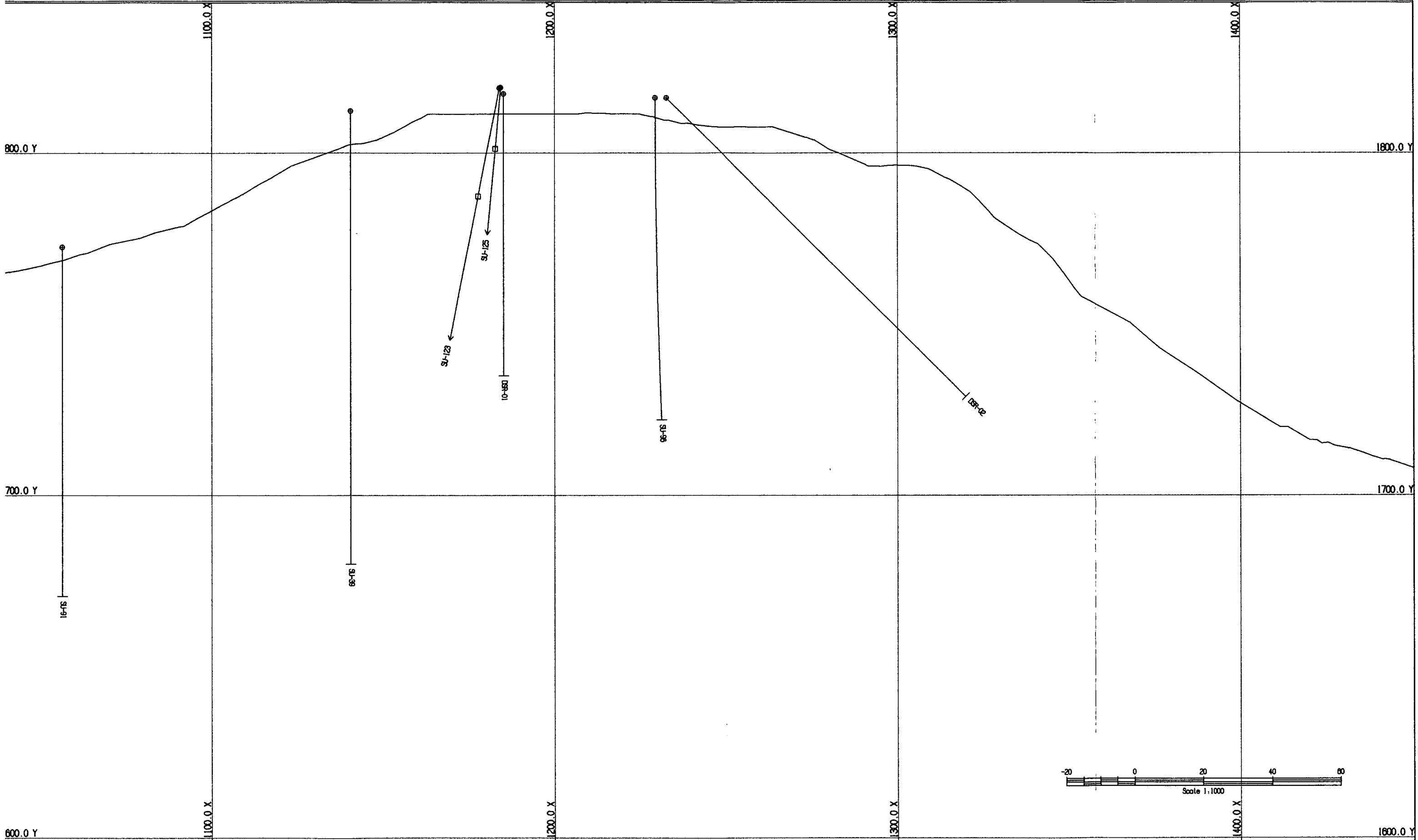


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Sustut Copper Project
 South-East Zone
 Section 2N Figure #7
 Lithology - Left : Cu Grade % + Ag g/t - Right

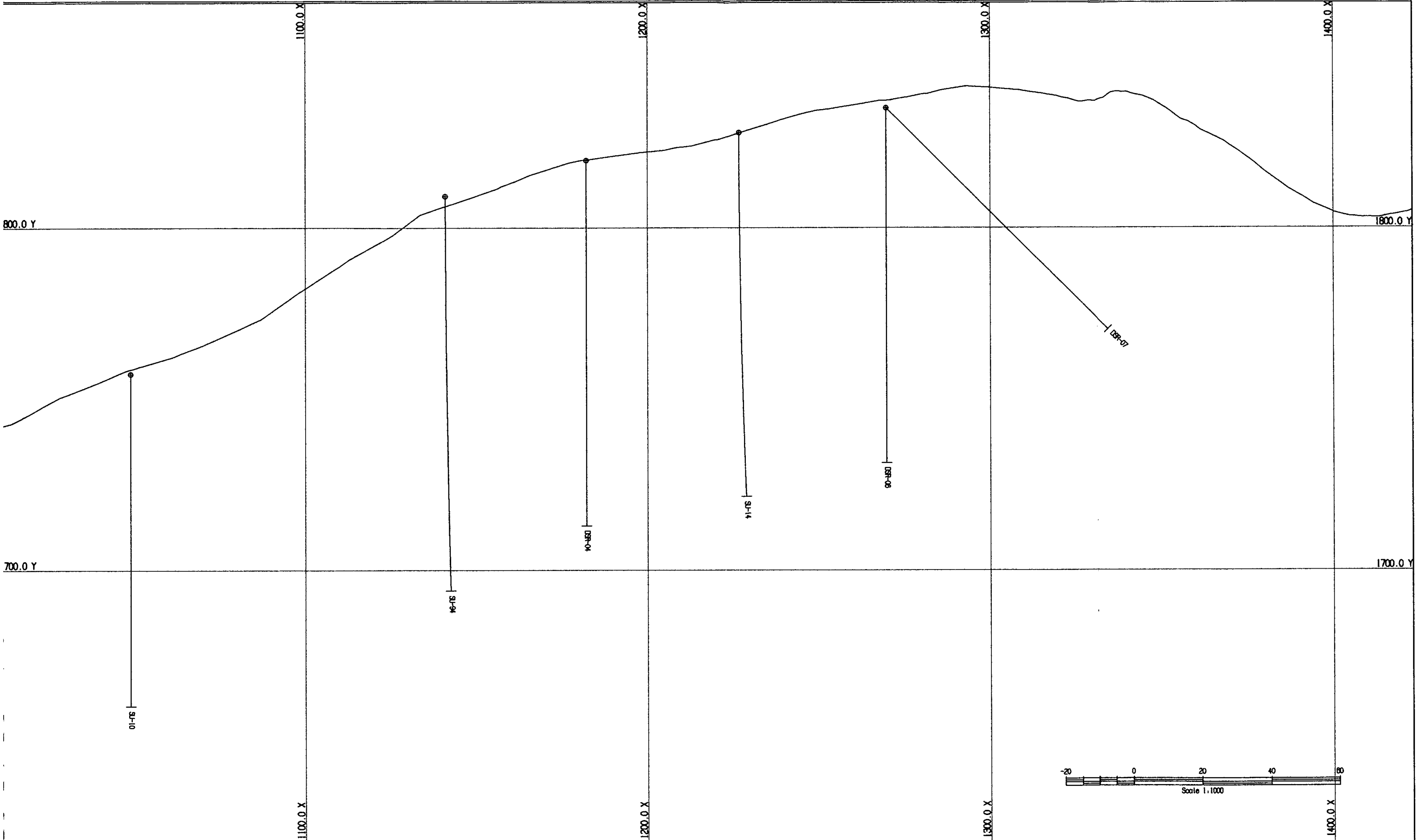
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Sustut Copper Project
 South-East Zone
 Section 3N Figure #8
 Lithology - Left : Cu Grade % + Ag g/t - Right
Software By Geom Software International

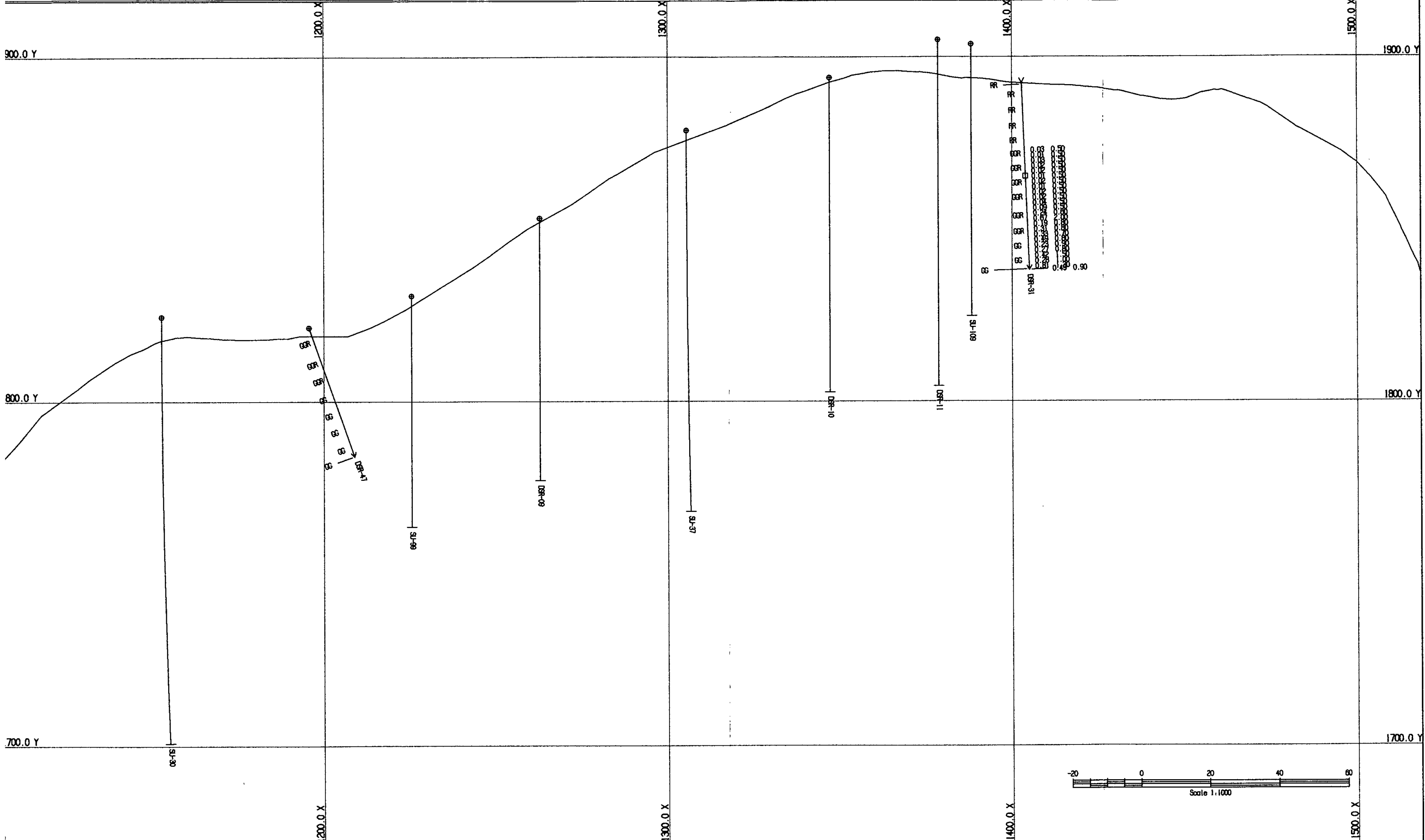


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Sustut Copper Project
 South-East Zone
 Section 5N Figure #10
 Lithology - Left : Cu Grade % + Ag g/t - Right

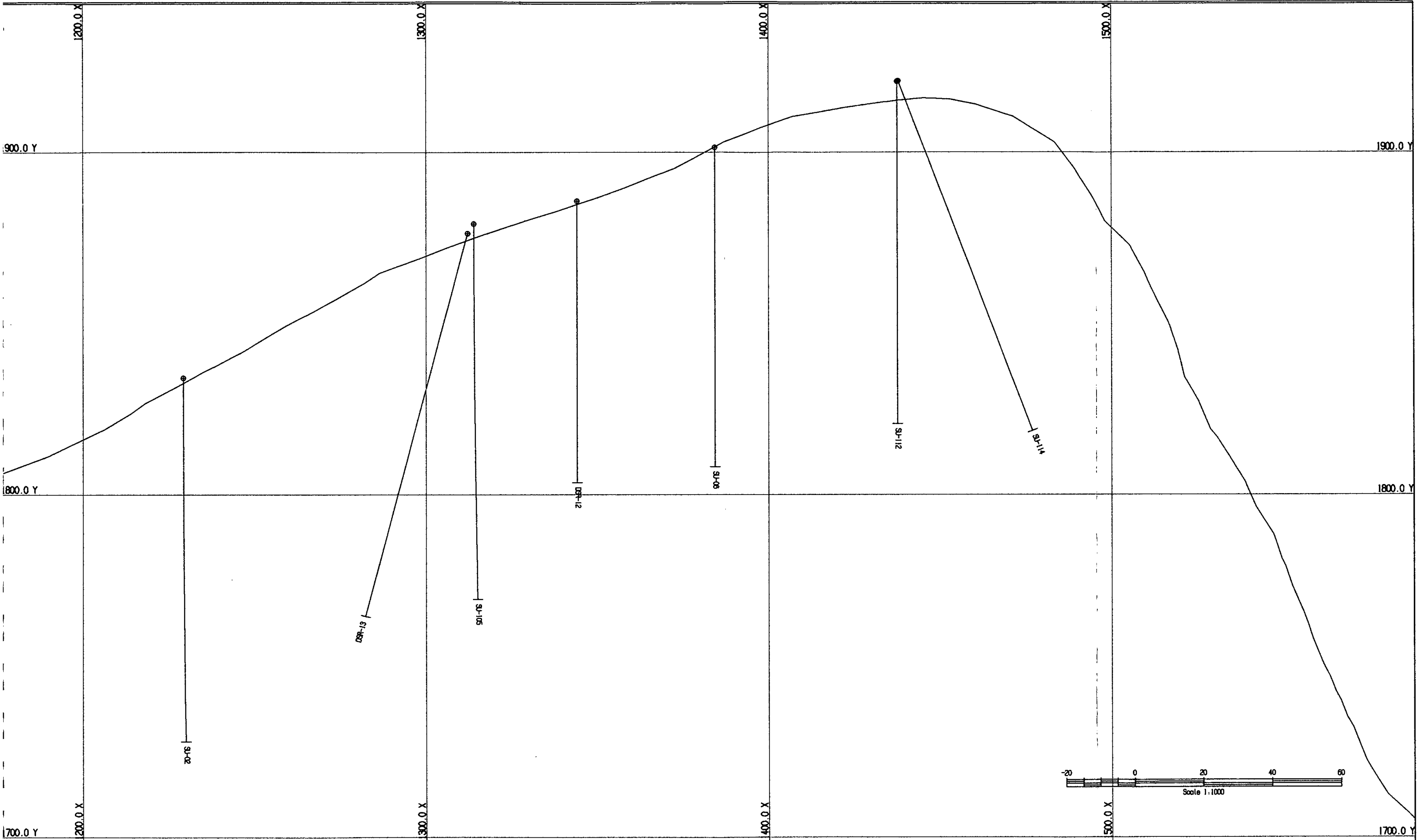
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Sustut Copper Project
 South-East Zone
 Section 7N Figure #12
 Lithology - Left : Cu Grade % + Ag g/t - Right
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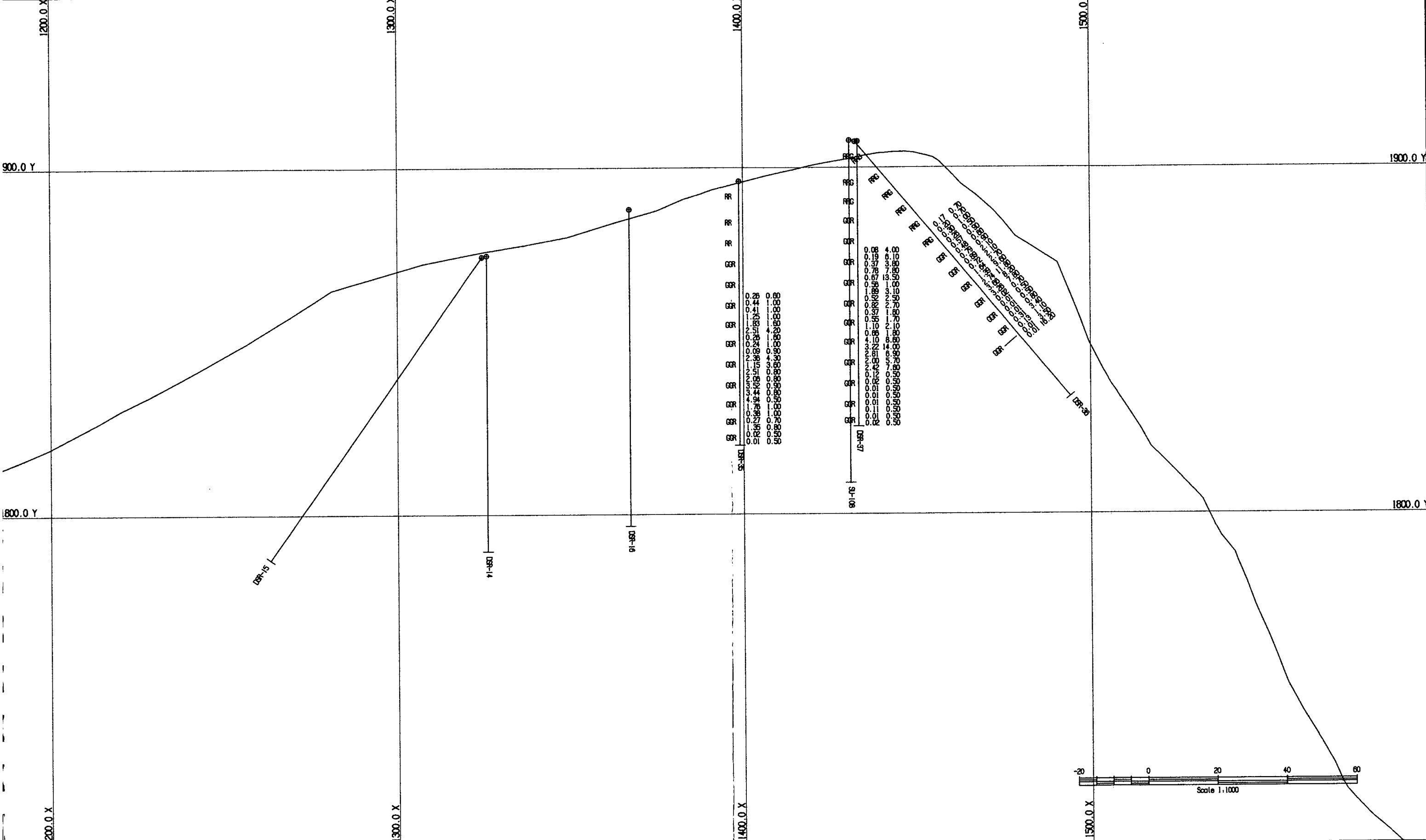


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Sustut Copper Project
 South-East Zone
 Section 9N Figure #14
 Lithology - Left : Cu Grade % + Ag g/t - Right

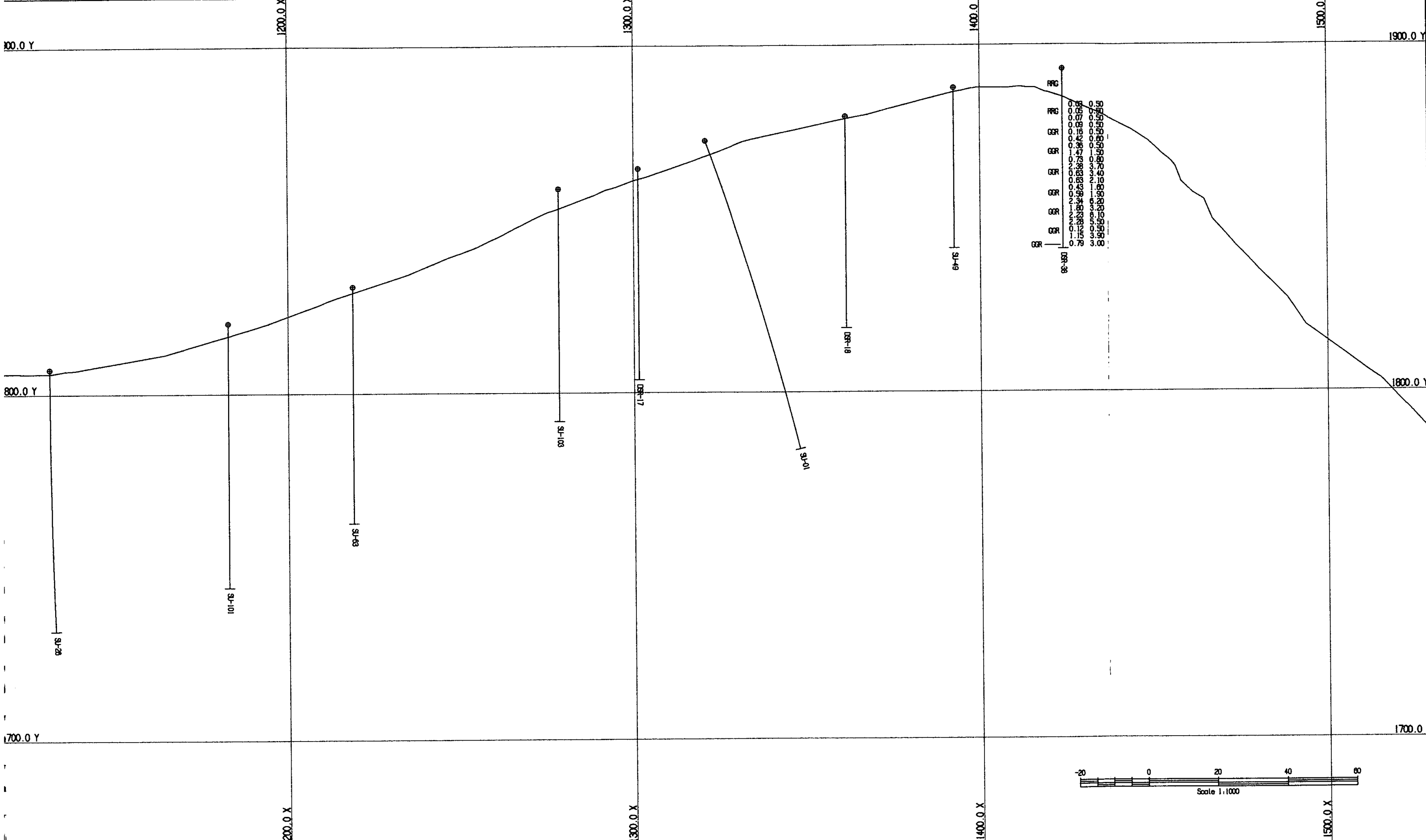
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Sustut Copper Project
 South-East Zone
 Section 10N Figure #15
 Lithology - Left : Cu Grade % + Ag g/t - Right
Software by Geomatics Software International

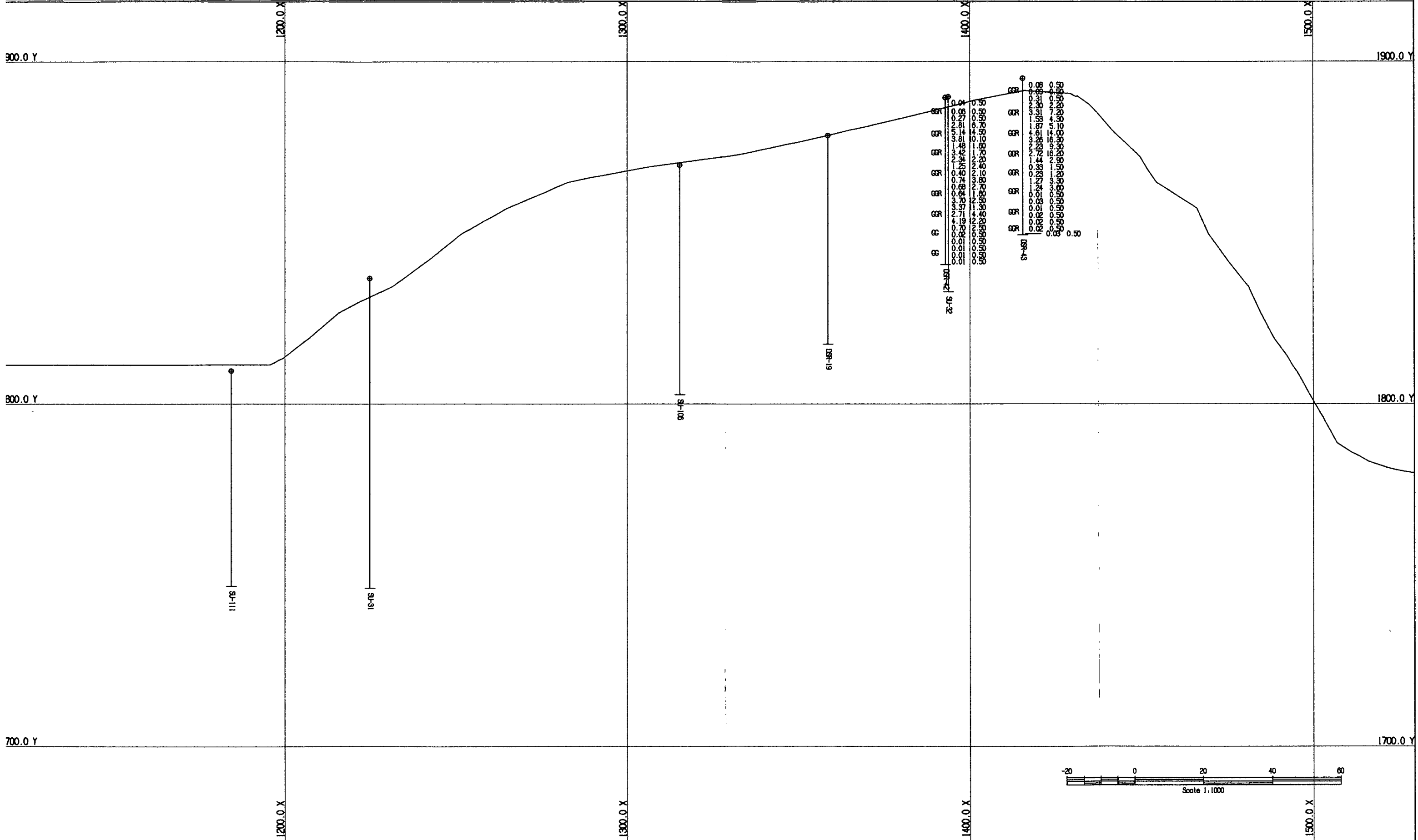


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Sustut Copper Project
 South-East Zone
 Section 11N Figure #16
 Lithology - Left : Cu Grade % + Ag g/t - Right

UNITS : METRES DATE: 03/05/05 TIME: 14:49:22

Software by Geom Software International

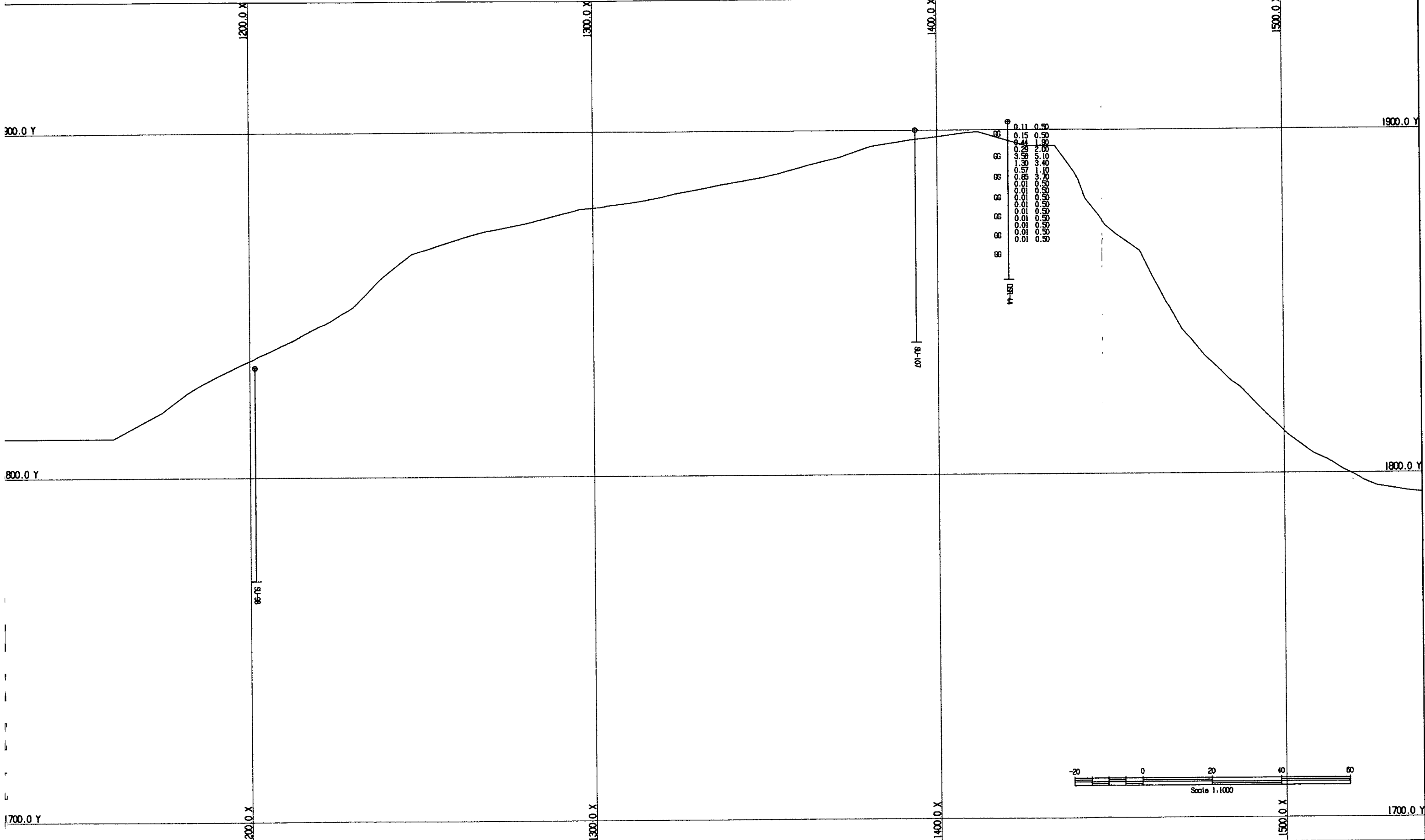


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Sustut Copper Project
 South-East Zone
 Section 13N Figure #18
 Lithology - Left : Cu Grade % + Ag g/t - Right

UNITS : METRES DATE: 03/05/05 TIME: 14:50:40

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Sustut Copper Project
 South-East Zone
 Section 14N Figure #19
 Lithology - Left : Cu Grade % + Ag g/t - Right

UNITS : METRES DATE: 03/05/05 TIME: 14:51:21

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