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30 MAY 1984
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PROJECT NAME: COMSTAFF PROPRIETARY LIMITED ANNUAL REPORT

TO THE DEPARTMENT OF MINES, TASMANIA FOR

TITLE: THE PERIOD 1.7.83 to 30.6.84

EXPLORATION LICENCE 5/63

MICROFILMED

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: 1:250 000 sheet Burnie SK 55-03

COMMODITY/IES: Sn, Cu, Pb, Zn, Ag, Au

TEXT PAGES NO: 10

PLAN NOS: See list of plans

TABLE NOS: -

APPENDICES: See list of contents

AUTHOR/S: R W L SHAW

DATE: MAY 1984

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

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84 - 2133 VOL 2 - DRILL HOLE LOGS
AREA 6
RBE 39-50

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2)	TAS-2-1897 ✓	EL 5/63 AREA 1. Magnet/Arthur River plan to accompany Annual Report 1.7.83 - 30.6.84
	TAS-2-3780 ✓	Deep Gully Creek Grid - Drill holes and geology
	TAS-2-3781 ✓	" " " " - Stream sediment Tin geochemistry
	TAS-2-3782 ✓	Deep Gully Creek Grid - Soil sample Tin geochemistry
	TAS-2-3783 ✓	Deep Gully Creek Grid - Magnetic anomaly
3)	TAS-2-3786 ✓	EL 5/63 AREA 2. Ramsay - Plan to accompany Annual Report 1.7.83 - 30.6.84
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5)	TAS-2-1802 ✓	EL 5/63 AREA 6 Renison. Plan to accompany Annual Report 1.7.83 - 30.6.84
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Drill logs PSB 1 - inside back cover

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422004

COMSTAFF PROPRIETARY LIMITED ANNUAL REPORT TO THE DEPARTMENT OF MINES, TASMANIA FOR THE PERIOD 1.7.83 to 30.6.84

EXPLORATION LICENCE 5/63

1. INTRODUCTION

In support of our application for renewal of Exploration Licence No 5/63 set out below is a summary of work undertaken and currently in progress, for the twelve month period ending 30th June 1984. Technical reports with plans and assay results on areas of completed activity in the tenement are appended as separate volumes.

The proposed exploration programme for the renewal period, 1st July 1984 to 30th June 1985, is presented, along with the proposed expenditure. Also included are summary plans and a selection of detailed maps showing work completed and in progress. Areas in which work is proposed for the period are illustrated on the summary plans.

2. SUMMARY OF WORK COMPLETED

In the **Arthur River** block encouraging results from successive phases of mapping and sampling lead to the expansion of the original proposed grid and evidence suggested a hard rock source beneath the Tertiary basalts for the tin anomalies north east of Deep Gully Creek. Drilling took place intersecting unmineralised Bischoff Series dolomites beneath the Tertiary cover.

In the **Ramsay** block two holes were drilled into the South Bischoff prospect. Both holes failed to provide significant mineralisation and further work on the prospect has been abandoned. A GENIE EM survey at CAB/WOW delineated the CAB INPUT anomaly as well as several other responses in the WOW area. Silt, concentrate and soil geochemical surveys have returned interesting values as well as anomalies coincident with EM conductors. West Ramsay CAI, CAM grids were drilled to test geophysical targets without intersecting concentrations of economic mineralisation.

In the massive Volcanogenic Base Metal search at **Pinnacles** mapping and core logging has refined the reinterpretation of the known mineralisation. Encouraging results were obtained with the recognition that high gold values accompany some of the known massive mineralisation and also are associated with cherty silicification.

The potential in **East Renison** of the Pieman Tin Zone and the Salmons Vein has been reappraised. Drill testing did not encounter a postulated southeasterly extension of the Vein. However, DDH RBE 50, intersected pyrite associated tin mineralisation. An aggressive exploration programme is current north of the Pieman River to follow up the results of the DIGHEM survey.

2.1 AREA 1 ARTHUR RIVER

Geology

Geological mapping at Deep Gully Creek confirmed the location of the Tertiary basalt contact, initially delineated on Ni geochemistry. The basalts are usually vesicular or amygdaloidal and are often columnar jointed in outcrop.

Mapping also revealed the existence of altered and mineralised porphyry float in Ethol Creek. The porphyry is very similar in appearance to the porphyry dykes at Mount Bischoff. Altered porphyries are thoroughly greisenised and carry disseminated cassiterite spatially associated with altered phenocrysts. Bedrock exposures within Ethol Creek include grey fissile, micaceous siltstones, quartzites and bands of more basic micaceous greywacke trending at 210 deg - 220 deg magnetic. The rocks are considered to belong to the Bischoff Series. The altered sediments comprise arkosic to labile psammopelites, some of which exhibit hornfelsic microtextures. The suite includes a relatively featureless quartzite-rock, interpreted as a silicified limestone or dolomite. Cassiterite mineralisation in the altered sediment host rocks appears confined to strongly altered types and is only conspicuous in a brecciated and topazised pelite.

A microscopic analysis of cassiterite panned from 1410 Creek concluded that the "source of the cassiterite was close to the present sample locality".

Rock Geochemistry

Encouraging results from rockchips include 1.49% Sn in silicified float collected in Ethol Creek. Mineralised specimens of quartz porphyry float returned assay values of .305% and .14%. Sn.

Geochemistry

Soil and stream sediment results have been interpreted. The 80 ppm nickel contour defines the Tertiary basalt contact. It shows that in the Tertiary, the topography was roughly the same as todays, only more deeply incised. The main soil and stream sediment tin anomalies are located roughly within the Tertiary depressions in the southwest quarter of the grid. The anomalies are cut off at the 525 metre contour. The main anomalies also cut out to the north east at line 6440N. The peak values for tin in silt samples were 1650 ppm and 1050 ppm, from line 6200N at 1410E and 1300E respectively. An anomaly of 35 ppm Sn obtained from a northern tributary of Robinson's Rivulet, is possibly related to nearby DIGHEM anomalies.

Magnetics

The magnetic picture is complex. The most intense feature is a roughly elliptical magnetic low flanking highs on lines 6080N and 6200N. The peak to peak deflection is in excess of 10,000 gammas. Anomalies in the western corner of the grid (mostly highs), correlate with Cambrian rocks of the Crimson Creek Formation.

Surface magnetic susceptibility readings are being used to aid interpretation of the data. Tertiary basalt magnetic susceptibility is low to moderate, averaging 250 SI units and rarely reaching 1,000. Bischoff Series commonly have a susceptibility of less than 100 SI units. Mafic units within the Cambrian sequence range from 2,000 to 9,000 SI units.

Drilling

A drilling programme (902m) was completed to test for a sub basaltic primary source for the tin geochemical anomalies in the Deep Gully Creek Area. Four of the five holes traversed a sequence of Tertiary basalts, some with interbasaltic wash, followed by laminated fossiliferous Tertiary sediments or chaotic Tertiary breccia before entering an intensely oxidised regolith capping variably silicified Bischoff Series dolomites. The remaining hole intersected a similar Tertiary 'overburden' before encountering Cambrian sediments. Basement in this instance is some 100m higher than that at the dolomite interface indicating a strong scarp like topography beneath the Tertiary cover. A primary source for surface geochemical anomalies has not been intersected in the basement - however anomalous levels of tin are recorded in the Tertiary sediments. The intense magnetic anomaly tested in the second hole drilled was not explained by the cuttings or core returned from the hole.

Electromagnetics

A down the hole EM survey is taking place to sample a 100m radius around each accessible hole for conductive replacement bodies in the basement.

Butlers Road

Rock chips collected from the Butler's Road group of DIGHEM anomalies were tourmalinised and greisenised granites and possibly sediments. Tin mineralisation was detected in two samples (0.35% and 0.1% Sn) and a value of 400 ppm silver was obtained for one of these. Gridding in preparation for detailed geological, geochemical and geophysical surveys is current.

2.2 AREA 2 RAMSAY

South Bischoff Prospect

Two holes were dilled totalling 229m following up encouraging drill results and quite extensive surface geochemical anomalies. The programme was suspended at South Bischoff with the completion of DDH CSB 5 as it failed to indicate an improvement with depth of the mineralisation intersected in CSB 3 and CSB 4 showed only weak values beneath the geochemical target. A full technical report on the South Bischoff prospect is appended as part of our Annual Report.

CAB/WOW Prospect

A GENIE EM survey of the new grid was completed and approximately 4.5 km of auger sampling (20m spacing) has been done. The GENIE EM survey successfully located the CAB INPUT anomaly. It is strong, shallow and has an 800 metre strike length. Black shales have been noted in the vicinity. Much weaker, but interesting GENIE anomalies occur within the WOW prospect area. The strongest response occurs on line 5700N at 4825E, has a 30 ^{o} to 45 ^{o} easterly dip and a depth of burial of 40 to 50 metres. Extension of this anomaly to adjacent lines is tentative but it has some geochemical support.

A geochemical drainage survey at CAB/WOW anomaly provided values which confirm a drainage exists in which tin is being shed, a basin with anomalous gold (290 ppb) occurs and indicates extensions to the grid defined targets for base metals. A number of the latter coincide with the EM response.

DDH CR2 was logged as part of the reassessment of the WOW prospect. A black shale unit from DDH CR1 was split and sampled, giving 3.7m at 0.15% Pb, 0.51% Zn and 3.5 ppm Ag. Similar interesting levels of lead, zinc and silver (2.8%, 0.29% and 5.6 ppm respectively) from CR 2 have been returned from a fault breccia and from black shales.

West Ramsay

Check auger samples from CAI line 5240N confirmed the previously obtained lead and tin/arsenic anomalies. No anomalous values were obtained on line 5480N. Elevated Sn and As values (15.8 ppm and 500 ppm respectively) were obtained for hydrothermally altered rock float on CAI line 5240N.

During construction of the CAM drill access track, pyrite, pyrrhotite and minor chalcopyrite mineralisation was located approximately along strike of the target zone in intensely hornfelsed and silicified black shales and basalts.

Three drill holes were completed, totaling some 409 metres, at CAI and CAM. They were targeted to investigate geophysical anomalies with the above mentioned surface manifestations. Each drill hole intersected conductive zones, compatible with the interpreted geophysical effect. In the case of the two CAI holes the conductive zones were massive replacement pyrrhotite while at CAM pyrrhotite bearing siliceous sediments and conductive black shales reconcile with the target. Analytical results indicate no concentration of minerals of economic interest accompany the conductive media. A detailed document describing this project is appended as part of our Annual Report.

Hatfield Zinc

Stream sediment surveys at Hatfield Zinc reconfirm the anomaly and introduce gold as a member of the anomalous suite of elements. An access track to this area is being prepared to permit further work.

2.3 AREA 3 MT BLOCK

No work was carried out.

2.4 AREA 4 CHESTER PINNACLES

Work Done

The period saw completion of the review and interpretation of previous exploration and the receipt of the results of the DIGHEM survey for the Chester/Pinnacles area. A re-definition of the exploration potential and indentification of target concepts in the Pinnacles/Shale Basin area emerged. A new phase of exploration was formulated for immediate implementaion.

Remapping of the Pinnacles geology took place and a stratigraphical hole was drilled to 188m. PSB 1 - logs at back An intensive channel sampling campaign and confirmatory reanalyses of old drill holes was conducted. A 2km by 1 km grid was cut for a UTEM survey, magnetic survey, soil sampling and geological mapping. Detailed mapping in the Shale Basin accompanied re-evaluation of previous geochemical results. A grid was cut to investigate a magnetic anomaly detected during the DIGHEM survey.

Results

(a) Pinnacles

Geologically a formational target zone has been defined as a facies and alteration zone between the mass of the Mt Read Volcanics to the east and the dominantly sedimentary environment at the Marionoak River. Within the target zone three styles of mineralisation are recognised: gold bearing massive cherty silicification, massive lead zinc mineralisation with gold values and massive sulphides rich in lead, silver and barite but deficient in gold. Channel sampling and core reanalysis provided precious metal results which are depicted on the accompanying plans. Gold and silver have been selected out as specific target commodities constituting a mapable 'horizon' of cherty silification subparallel to the western boundary of the mass of the Mt Read Volcanics. In detail the distribution of precious metals appears to be patchy, as is typical of epithermal styles of gold mineralisation. The genetic relationship between the base and precious metals is spatially obvious but remains to be fully understood.

The project has been split into a gold search in which drilling beneath Brown's Workings is about to commence, and a volcanogenic base metal search for which UTEM geophysical survey has just been completed over 2 km strike length of the formational target zone. It is expected that this two pronged approach will ultimately merge again as the data bank grows.

The new grid EAF, was cut to accommodate the UTEM survey. This grid is presently being subject to a ground magnetic survey and soil sampling. The analytical suite for the soil samples will be finalised following an orientation survey to establish the most effective means of detecting the distribution of gold in this medium.

Work on the Magnetic grid is still current. However, it can be reported that the target magnetic response has been detected by ground surveys but no supportive soil geochemical anomaly is apparent.

(b) Shale Basin

The Shale Basin work demonstrated that many of the anomalous samples are detecting hydromorphically dispersed lead and zinc. Limonitic crusts or cement between glacial boulders provided highly anomalous values for lead and zinc (2200 ppm Pb, 2700 ppm Zn), which in many cases can be interpreted to be the medium sampled in the original soil survey. The underlying strata are in part anomalous (3150 ppm Pb, 765 ppm Zn) but probably insufficient to provide the limonite crust values. The search area is being expanded to trace the anomalies back to source. Geologically the area is underlain by an interbedded sequence of shales and tuffs in the axis of the Que syncline.

2.5 AREA 5 HUSKISSON

No field work was done.

2.6 AREA 6 EAST RENISON

Work Done

608.2m were drilled to test the Pieman Tin Vein prospect in four holes. One hole was subject to an Applied Potential survey. All core was logged and sampled for analysis and petrological description. All surface and underground manifestations of the Pieman Tin Vein, were located, surveyed and sampled. Restudy of old core from the Tin and Salmons Vein has lead to reinterpretation of the system and a Resource Report is presently being prepared.

Detailed interpretation of pre existing data against DIGHEM results lead to an intensive exploration phase north of the Pieman River. Three grids have been cut, sampled geochemically, and magnetically; they have been geologically mapped and one was surveyed by UTEM. Semi regional geochemical and geological surveys were conducted to put the grid work in context as well as to inspect other DIGHEM anomalies. A grid (230H) has been cut to investigate DIGHEM anomalies south of the Pieman River as a winter season project.

Results

Drilling was successful in verifying a reinterpretation of the Tin structure (RBE 39/48) but failed to provide a postulated SE extension (RBE 49 and 50). Drill sections show that RBE 39 closes off the Tin structure north westwards while to the SE 4.83% Sn was recorded from 18.7 to 21.0m. A simple NW-SE trending vein is indicated by drilling with northward and southward trending offsets. Surface mapping and old workings confirm this pattern. Preliminary estimates indicated reserves approach 1.5 x 10^6 tonnes at about 0.9% Sn. This figure is being refined into probable and possible categories as the subject of a Resource Report against which indicative economic studies will be conducted. In conjunction with this work a detailed review of the Salmon Vein has been continuing and indicative reserve figures are being derived. The vein is lead zinc silver dominated although patchy tin credits are present. It may be possible to look at the two systems as one.

Drill holes RBE 49 and 50 intersected a narrow, pyritic tin structure providing a 1m assay of 0.86% Sn. Mineralogically it differs from the "Tin Vein" and the applied potential survey indicates a N - S strike - not linking it with the Tin Structure.

Results of work north of the Pieman on grids 120 AX, 60D and 180H are incomplete. Uninterpreted UTEM anomalies are pesent on 120AX in an environment of Dundas sediments and felsic crystal tuffs. Weak lead, zinc geochemical anomalies spacially related to serpentinite and the DIGHEM anomalies occur on 60D, but interpretation of them is required. 180H is covered by thick glacials and hence provides no opportunity for direct geological or geochemical sampling. The semi regional work especially in the Pieman River is expected to assist the understanding of this area and permit a ranking of the inspected but as yet ungridded DIGHEM targets.

Compiled from reports by
J A LEVINGS, D S THYNNE, R H ROBERTS, R A A MUNRO

By R W L SHAW
MAY 1984.

3. PROPOSED EXPLORATION PROGRAMME AND SCHEDULE 1984/1985

ARTHUR RIVER AREA EL 5/63 AREA 1

TARGET. Mt Bischoff - Cleveland style replacement tin mineralisation

July - September 1984

Appropriate follow up of current down the hole geophysical survey results from Deep Gully Creek will be initiated. Ground follow up of the Butlers Road group of DIGHEM anomalies will be ongoing including mapping, geochemistry and magnetic surveys. Preparations for EM surveys will be made.

October - December 1984

Drilling at Deep Gully Creek will be a possibility and follow up of DIGHEM anomalies in the vicinity of Deep Gully Creek grid will commence. Butlers Road will see ground geophysical surveys with a view to scout drilling target definition.

January to June 1985

Active follow up of targets found in the above programmes will continue and considerations for reduction requirements will be finalised.

RAMSAY AREA EL 5/63 AREA 2

TARGET. Structurally controlled replacement and sediment hosted tin and lead zinc silver mineralisation.

July - September 1984

Finalisation of exploration priorities in the West Ramsay tin target area will take place. Preparations for a summer season programme in the Hatfield and CAB/WOW target areas will be completed.

October - December 1984

Geological mapping will be conducted at the CAB/WOW targets to establish drill recommendations. Reconnaisance mapping and ultimately grid based follow up will be conducted at the Hatfield target.

January to June 1985

The Hatfield and CAB/WOW targets will be advanced sufficiently to permit a coordinated scout drilling programme to be executed as warranted by the results. Careful consideration of the prospectivity of the area will be undertaken in order to satisfy reduction requirements.

MT BLOCK AREA EL 5/63 AREA 3

TARGET. Massive Volcanogenic Sulphides.

July 1984 to June 1985

A careful review of the Mt Block area will be undertaken to ascertain its prospectivity with a view to initiating further work or recommending reduction of the area at due date.

CHESTER/PINNACLES EL 5/63 AREA 4

TARGET. Massive Volcanogenic Sulphides and related gold..

July to September 1984

Interpretation of the results of grid geophysics, (UTEM and Magnetics) geochemistry and geological mapping at the Pinnacles target is hoped to lead to a phase of drilling. Evaluation of the current quarter drilling, targeted at a gold bearing facies of the Pinnacles mineralisation, will be conducted.

October to December 1984

Appropriate follow up to positive results in the Pinnacles area will take place - with emphasis on drilling. Ground follow-up and reappraisal of anomalies south of the Chester Pyrite mine will be initiated and investigation of the Shale Basin, west Marionoak sediment hosted target domain will be undertaken.

January to June 1985

Follow-up of general targets with the emphasis on achieving drilling status will take place. Positive results from the Pinnacles area will be aggressively pursued. Due consideration to a reduction in area will be given to meet statutary requirements.

HUSKISSON EL 5/63 AREA 5

July 1984 to June 1985

A careful review of the Huskisson area will be undertaken with a view to initiating further work or recommending the area be surrendered at due date.

EAST RENISON EL 5/63 AREA 6

July to September 1984

Detailed study of the results from the intensive exploration phase recently initiated north of the Pieman

River will be done. A winter season accessible grid 230H, adjacent to the Tin/Salmons Vein will be mapped and sampled. A Resource Report for the Tin/Salmons Vein will be tabled.

October to December 1984

Follow up recommendations, probably including scout drilling, will be implemented for the north of the Pieman area. Initial work on the 230H grid will be completed.

January to June 1985

Recommendations accruing from an indicative economic evaluation of the Tin/Salmons Vein reports will be assessed. Encouraging results from grid follow up and scout drilling will attract further work. As with the other areas a significant portion of time will be allocated to consideration of this area as a candidate for the required reduction of EL 5/63.

4. PROPOSED EXPENDITURE FOR EL 5/63 FOR THE YEAR ENDING JUNE 1985

The sub areas of EL 5/63 are budgeted for funding as set out below. A contingent reserve is available, particularly for drilling, to expand on the programme outlined, in the event that success at any particular project seriously drains off funds to the detriment of others.

Area 1	Arthur River		200 000
Area 2	Ramsay		150 000
Area 4	Chester/Pinnacles		250 000
Area 6	East Renison		200 000
Area 3/5	Mt Block/Huskisson		20 000
		Total	$ 820 000

R W L SHAW
May 1984.

I, OSVALDO TIBURCIO FILOMENO FONSECA of 56 Partridge Crescent Frankston in the State of Victoria, Accountant DO SOLEMNLY AND SINCERELY DECLARE as follows:

That in the ten months ended 30 April 1984 we have expended $881 087 on work on Exploration Licence 5/63 and that this is further broken down into:

	$
(a) Operational staff costs	334 173
(b) General operational expenses	62 376
(c) Transport and travel	41 311
(d) Tenement costs	905
(e) Contractors	123 396
(f) Specialist services	16 339
(g) Drilling and treatment	185 650
(h) Capital expenditure	42 555
(i) Administration costs	74 382
	881 087

AND I MAKE this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of an Act of the Parliament of Victoria rendering persons making a false declaration punishable for wilful and corrupt perjury.

DECLARED AT MELBOURNE)
)
in the State of Victoria) O. Fonseca
)
this 24th day of)
)
May. 1984)

Before me:

A Commissioner for taking Declarations and Affidavits under the Evidence Act 1958.

AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG
Summary Sheet

422015

Page
of

DRILLHOLE TYPE

PROJECT PINNACLES **AREA** EL 5/63

CO-ORDS 377811·88 E
538 4705·05 N **DEC^{LN}** -45 **AZIMUTH** 287°MN. **RL** 499·71 **DH No.** PSB-1

DATE COMMENCED 14/2/84 **DATE COMPLETED** 23/2/84 **DRILLED BY** OVERLAND **DRILL RIG** W - 250

Non Coring to: 0 - 7m **HQ Core to:** 7 - 23m **NQ Core to:** 23-188m **BQ Core to:** **EOH** 188m

SURVEY DATA

Instrument:

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr			Uncorr	Corr	
0	-45		287° MN				
188	-43.5		281° MN				

LOG SUMMARY

ROCK TYPE		MINERALIZATION		
		Style	Grade	Intersection width (Corr)
0 - 7m:	NO CORE			
7 - 59.5:	Volcanic Breccia: 7-19: Fine-grained breccia with fragments typically <1cm 19-59.5: Coarse breccia with fragments ranging from <1cm to >6cm. Fragments are dominantly pink rhyolite (?), some with flow banding textures, and dark-green feldspar porphyry			
59.5-71:	Pale-green pyroclastic ash-thin (<1mm) sericite (?) stringers pervade the rock giving a general foliation - contains patches of blue-grey ash/shale	59.5-71: very minor Py/Sph/Gal		
71-99.8:	Fine-grained buff-coloured volcanic - fine-grained porphyritic texture in parts - commonly cut by green chlorite veins	71-99.8: minor sulphides in chlorite vns		
99.8-188:	Green-coloured feldspathic Porphyry - sub-euhedral white (? feldspar) fragments evenly distributed within a fine-grained dark-green matrix - varies from a green to pink colour with varying degrees of siliceous alteration - contains minor shale lenses	99.8-188: minor veins of Py/Sph/Gal/, with qtz veins		

Signature RHRoberts **Date** 6/9/84

LITHOLOGY

LOST CORE	DRILL ADVANCE FROM DEPTH	TO DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	0	7				NO CORE					
	7	7.5	.2	40		Fine-grained brecciated pyroclastic - fragments typically <1cm					
	7.5	8.3	.4	50							
	8.3	10.2	.7	36							
	10.2	11.5	.5	38							
	11.5	12.4	.3	33							
	12.4	13.9	.8	53							
	13.9	15.00	.5	45							
	15.0	16.6	1.1	68							
	16.6	18.0	1.4	53							
	18.0	19.5	1.4	93	19M	Coarse Pyroclastic Breccia - fragments generally range from <1cm to >6cm Fragment types the same as in finer-grained breccia above					
	19.5	21.0	1.1	73							
	21.0	22.5	1.3	86							
	22.5	23.0	.4	80							
	23.0	25.2	.9	40							

SCALE 1:100 (1cm = 1 m)

422016

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH ESB-1 (PSB-1)

LOGGED BY R.H. ROBERTS FROM .... TO .... DATE 1/84 PAGE 1 OF 8

DRILL ADVANCE

FROM ~~DEPTH~~	TO ~~DRILL ADVANCE INTERVAL~~	CORE RECOVERY	PERCENT RECOVERY
25·2	27·6	1·6	66
27·6	28·3	·4	57
28·3	30·6	1·7	73
30·6	31·5	·6	66
31·5	32·4	·7	77
32·4	34·2	1·6	88
34·2	35·8	1·3	81
35·8	36·7	·6	66
36·7	39·4	2·6	96
39·4	41·5	2·1	100
41·5	42·1	·55	91
42·1	42·7	·60	100
42·7	44·9	2	90
44·9	46·2	1·2	92
46·2	47·2	·9	90

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Fragment Types: - Pink rhyolitic(?) frags - some c̄ flow textures - Dk-green frags c̄ orange phenocrysts - Pale-green frags c̄ white phenocrysts - V. Dk. green chloritic frags c̄ phenocryst - Layered Pink/Green Frags - V. Pink frags c̄ qtz Phenocryst.					
38·4	Jagged fragments of varying nature - often appear to occur in a grey sil. fine-grained matrix - mainly lapilli-sized frags					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH PSB-1

LOGGED BY R.H. ROBERTS FROM .... TO .... DATE 1/84 PAGE 2 OF 8

422017

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	47.2	50.0	2.7	96
	50.0	51.6	1.5	93
	51.6	53.3	1.7	100
	53.3	53.8	.5	100
	53.8	54.6	.7	87
	54.6	56.0	1.4	100
	56.0	58.5	2.5	100
	58.5	60.6	2.1	100
	60.6	62.0	1.3	92
	62.0	63.1	.9	81
	63.1	66.2	3.0	96
	66.2	68.3	1.7	80
	68.3	71.2	2.6	89
	71.2	72.4	1.2	100
	72.4	74.0	1.5	93

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	"					
59.5	Foliated pale-green ash tuff c̄ white phenocryst. Orange/yellow sericite(?) stringers throughout defining a foliation. - Patches of greyer tuff/shale			63.5 LAY/CA = 52° 66.4 Flame structure WAY UP TO TOP 69.7 FOL/CA = 43°	- small patches of Py/Sph/Gal	
71	Buff/cream-coloured sed. volcanic - parts show faint porphyritic texture					

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH PSB-1

LOGGED BY R.H. ROBERTS FROM .... TO .... DATE 1/84 PAGE 3 OF 8

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	74	74.5	.4	80		11					
	74.5	75.5	.8	80		Typically fractured and containing green chlorite veins.					
	75.5	77.0	1.3	86							
	77.0	78.2	1.1	91							
	78.2	79.8	1.4	87							
	79.8	80.8	.9	90							
	80.8	81.5	.5	71		11					
	81.5	82.2	.6	85							
	82.2	83.8	1.4	87							
	83.8	86.7	2.9	100						84 - Minor Sph/Gal in veins	
	86.7	89.8	3.1	100							
	89.8	92.0	2.2	100							
	92.0	94.7	2.7	100		11					
	94.7	96.1	1.4	100							
	96.1	97.2	1.0	100							

SCALE 1:100 (1cm = 1 m)

422019

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH PSB-1

LOGGED BY R.H. ROBERTS FROM .... TO .... DATE 1/84 PAGE 4 OF 8

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	97.2	99	1.8	100		"					
	99	100.4	1.4	100	99.8	Dk-green porphyritic volcanic c̄ white phenocrysts Patches of pink siliceous alteration occur throughout porphyry. Can destroy porphyritic texture					
	100.4	103.2	2.8	100							
	103.2	104.3	1.1	100							
	104.3	106.1	1.4	77							
	106.1	107.2	1.0	90							
	107.2	107.4	.1	50							
	107.4	107.7	.3	100							
	107.7	108	.2	66							
	108	108.7	.4	57							
	108.7	110	1.5	115							
	110	113	2.9	96		"					
	113	114.2	1	83							
	114.2	116.5	2.5	100							
	116.5	117.4	.8	88							

422020

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH PSB-1

LOGGED BY R.H. ROBERTS FROM .... TO .... DATE 1/84 PAGE 5 OF 8

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	117.4	118.2	.7	87
	118.2	118.4	.2	100
	118.4	118.9	.3	60
	118.9	120.7	1.8	100
	120.7	122.6	1.8	94
	122.6	123.9	1.2	92
	123.9	127	3.08	99
	127	129	2.0	100
	129	132	2.9	96
	132	135	2.9	96
	135	136.5	1.4	93
	136.5	137.6	.9	81
	137.6	138.6	.7	70
	138.6	139.7	.8	72
	139.7	140.1	.2	50

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	"					
	122.6—123: Bedded grey shale			122.8: BEDD/FOL = 55°	122.6 – 123: Pyrite in shale layers. – bluish splashes ? sulphide alt.	
	Green feldspathic Porphyry c̄ pink sil. alteration.					
	131.5 – 135: Mixed volcanic and shale					
	136.9 – 146.3: Blue/grey alteration?	←				
	Green feldspathic porphyry (as above)					

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH PSB-1

LOGGED BY R.H. ROBERTS FROM .... TO .... DATE 1/84 PAGE 6 OF 8

040

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	140·1	140·8	·6	85		"					
	140·8	141·7	·8	88							
	141·7	142·1	·3	75							
	142·1	145·2	3·0	96							
	145·2	145·4	·36	180		"					
	145·4	146·9	1·3	86							
	146·9	148	1·2	109		Green feldspathic Porphyry					
	148	151·1	3·1	100							
	151·1	152·6	1·3	86							
	152·6	154·3	1·4	82							
	154·3	154·6	·2	66							
	154·6	155·7	1·0	90		"					
	155·7	156·6	·8	88							
	156·6	159·7	2·9	93							
	159·7	162·8	3·0	96							

SCALE 1:100 (1cm = 1 m)

422022

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH PSB-1

LOGGED BY R.H. ROBERTS FROM .... TO .... DATE 1/84 PAGE 7 OF 8

041

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	162.8	165.9	3.08	99		11	164-170.4 Intense pink alteration				
	165.9	169	3.0	96		Green feldspathic Porphyry					
	169	172.1	3.0	96						170 - 170.1: Coarse veins of GAL/SPH	
	172.1	173	.9	100						173.1: Vein of GAL/SPH/PY	
	173	176	3.0	100							
	176	179	2.8	93		11					
	179	182	2.9	96							
	182	185	3.0	100							
	185	188	3.0	100			Intense Sil. alteration				
		E.O.H.									

422023

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH PSB-1

LOGGED BY R.H. ROBERTS FROM .... TO .... DATE 1/84 PAGE 8 OF 8

GEOCHEMISTRY

042

Metres	Cu	Pb	Zn	Ag	Au											SAMPLE NUMBER
7m	20	70	50	0.5	BLD											
10m	30	175	55	BLD	BLD											
13-16m	25	355	75	BLD	BLD											

42024

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH PSB-1

ASSAYED BY ANALABS FROM 7 TO 10m DATE 8/3/84 PAGE 1 OF 13

043

Metres	Cu	Pb	Zn	Ag	Au											SAMPLE NUMBER
16 m	30	600	115	0.5	BLD											
19 m	25	230	180	BLD	BLD											
22 m	45	190	195	0.5	BLD											
25 m	50	185	150	0.5	BLD											
28-31	45	120	150	0.5	BLD											

42025

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH PSB-1

ASSAYED BY ANALABS FROM 15 TO 30m DATE 7/3/84 PAGE 2 OF 13

Metres	Cu	Pb	Zn	Ag	Au											SAMPLE NUMBER
31 m	30	55	150	0·5	BLD											
34	40	40	120	0·5	BLD											
37	35	30	165	BLD	BLD											
40	40	25	160	BLD	BLD											
43 - 46	50	40	190	0·5	BLD											

42026

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH PSB-1

ASSAYED BY Analabs FROM 30 TO 45 DATE 7/3/84 PAGE 3 OF 13

Metres	Cu	Pb	Zn	Ag	Au											SAMPLE NUMBER
46m	35	20	170	BLD	BLD											
49m	35	325	425	0·5	BLD											
52m	20	80	190	0·5	BLD											
55m	20	65	120	0·5	BLD											
58-61	15	5	135	0·5	BLD											

42027

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH PSB-1

ASSAYED BY ANALABS FROM 45 TO 60m DATE 7/3/84 PAGE 4 OF 13

Metres	Cu	Pb	Zn	Ag	Au	SAMPLE NUMBER
61 m	10	50	500	0·5	BLD	
64 m	15	125	430	1·0	BLD	
67 m	20	80	840	1·0	0·215	
70 m	15	35	830	1·0	BLD	
73-76	20	25	280	0·5	BLD	

42028

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH PSB-1

ASSAYED BY ANALABS FROM 60 TO 75m DATE 7/3/84 PAGE 5 OF 13

047

Metres	Cu	Pb	Zn	Ag	Au											SAMPLE NUMBER
76 m	15	20	410	0·5	BLD											
79 m	20	90	450	0·5	BLD											
82 m	20	230	225	0·5	BLD											
85 m	55	80	440	BLD	BLD											
88- 91m	20	30	220	BLD	BLD											

42029

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH PSB-1

ASSAYED BY Analabs FROM 75 TO 90m DATE 7/3/84 PAGE 6 OF 13

048

Metres	Cu	Pb	Zn	Ag	Au											SAMPLE NUMBER
91m	20	250	170	BLD	BLD											
94m	20	20	250	BLD	BLD											
97m	25	35	175	BLD	BLD											
100m	25	25	220	BLD	BLD											
103-106m	50	5	225	BLD	BLD											

42030

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH PSB-1

ASSAYED BY ANALABS FROM 90 TO 105 m DATE 7/3/84 PAGE 7 OF 13

Metres	Cu	Pb	Zn	Ag	Au											SAMPLE NUMBER
106 m	30	85	290	1.0	BLD											
109m	25	20	140	BLD	BLD											
112 m	20	10	175	BLD	BLD											
115 m	25	10	135	BLD	BLD											
118-121 m	35	15	180	BLD	BLD											

42203

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH PSB-1

ASSAYED BY ANALABS FROM 105 TO 120 DATE 7/3/84 PAGE 8 OF 13

050

Metres	Cu	Pb	Zn	Ag	Au											SAMPLE NUMBER
121 m	35	135	310	0·5	0·014											
124 m	20	20	75	BLD	BLD											
127 m	25	185	1300	0·5	BLD											
130 m	20	480	3050	1·5	BLD											
133 – 136m	25	185	1400	0·5	BLD											

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH PSB-1

ASSAYED BY ANALABS FROM 120 TO 135 DATE 7/3/84 PAGE 9 OF 13

422032

851

Metres	Cu	Pb	Zn	Ag	Au											SAMPLE NUMBER
136 m	30	380	650	1.0	BLD											
139 m	25	570	350	1.0	BLD											
142 m	20	325	520	1.5	BLD											
145 m	25	105	405	0.5	BLD											
148 - 151 m	30	105	660	0.5	BLD											

42033

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH PSB-1

ASSAYED BY ANALABS FROM 135 TO 150 DATE 7/3/84 PAGE 10 OF 13

052

Metres	Cu	Pb	Zn	Ag	Au	SAMPLE NUMBER
151 m	20	120	1200	0·5	BLD	
154 m	35	90	480	0·5	BLD	
157 m	30	65	420	0·5	BLD	
160 m	25	75	515	0·5	BLD	
163 m	20	90	775	0.5	BLD	
164 m	10	55	225	BLD	BLD	
165 m						

422034

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH PSB-1

ASSAYED BY ANALABS FROM 150 TO 165 DATE 7/3/84 PAGE 11 OF 13

Metres	Cu	Pb	Zn	Ag	Au											SAMPLE NUMBER
165 m	15	25	85	0.5	BLD											
166 m	15	80	305	0.5	0.01											
167 m	105	1250	1050	1.5	0.05											
168 m	100	810	1200	1.0	0.16											
164 m	40	255	225	0.5	0.03											
170 m	45	110	495	BLD	0.06											
171 m	10	50	120	BLD	0.01											
172 m	25	70	240	BLD	BLD											
175 m	50	80	210	0.5	BLD											
178 – 181 m	65	65	185	0.5	BLD											

422035

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH PSB-1

ASSAYED BY ANALABS FROM 165 TO 180 m DATE 7/3/84 PAGE 12 OF 13

054

180 181 182 183 184 185 186 187 188

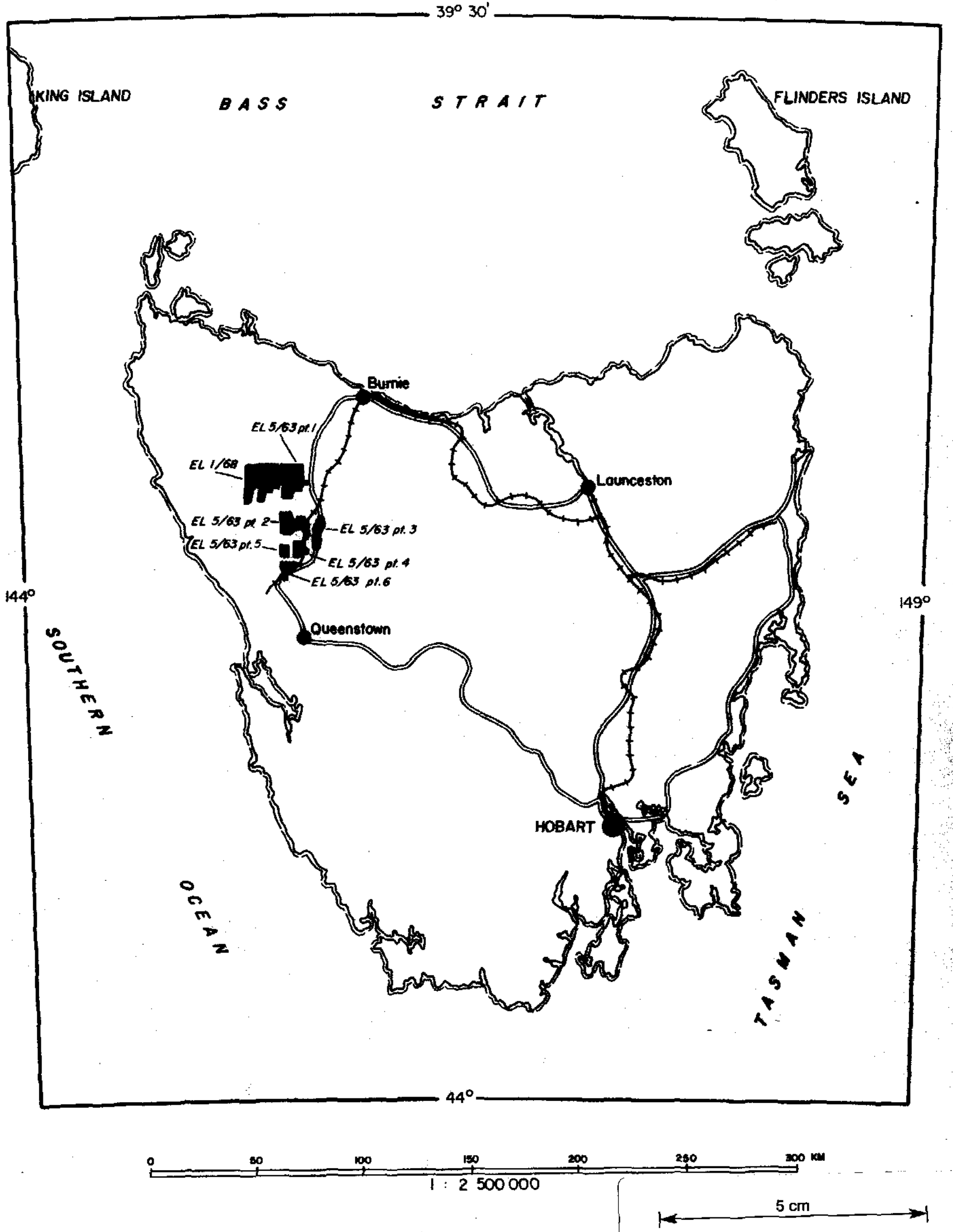
Metres	Cu	Pb	Zn	Ag	Au											SAMPLE NUMBER
181 m																
	45	55	325	0.5	BLD											
184 m																
	75	75	260	0.5	BLD											
187 m																
	335	1150	615	6.0	0.089											
188 m																

422036

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH PSB-1

ASSAYED BY ANALABS FROM 180 TO 188 m DATE 7/3/84 PAGE 13 OF 13

422037

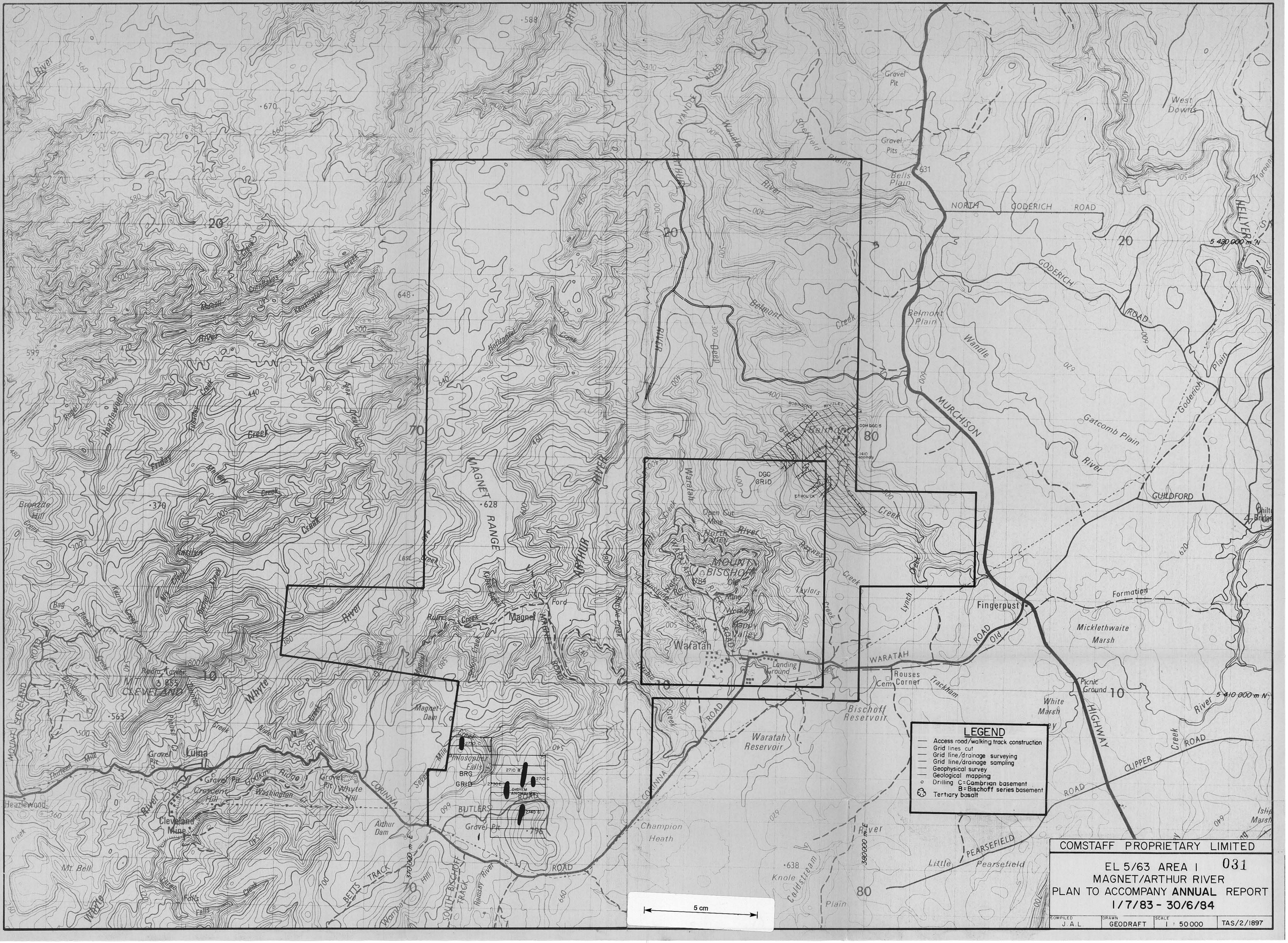


COMSTAFF PROPRIETARY LIMITED

LOCATION OF COMSTAFF LEASES IN TASMANIA

DRAWN	COMPILED	SCALE	
GEODRAFT 7/78		1 : 2 500 000	TAS/2/1566

422038

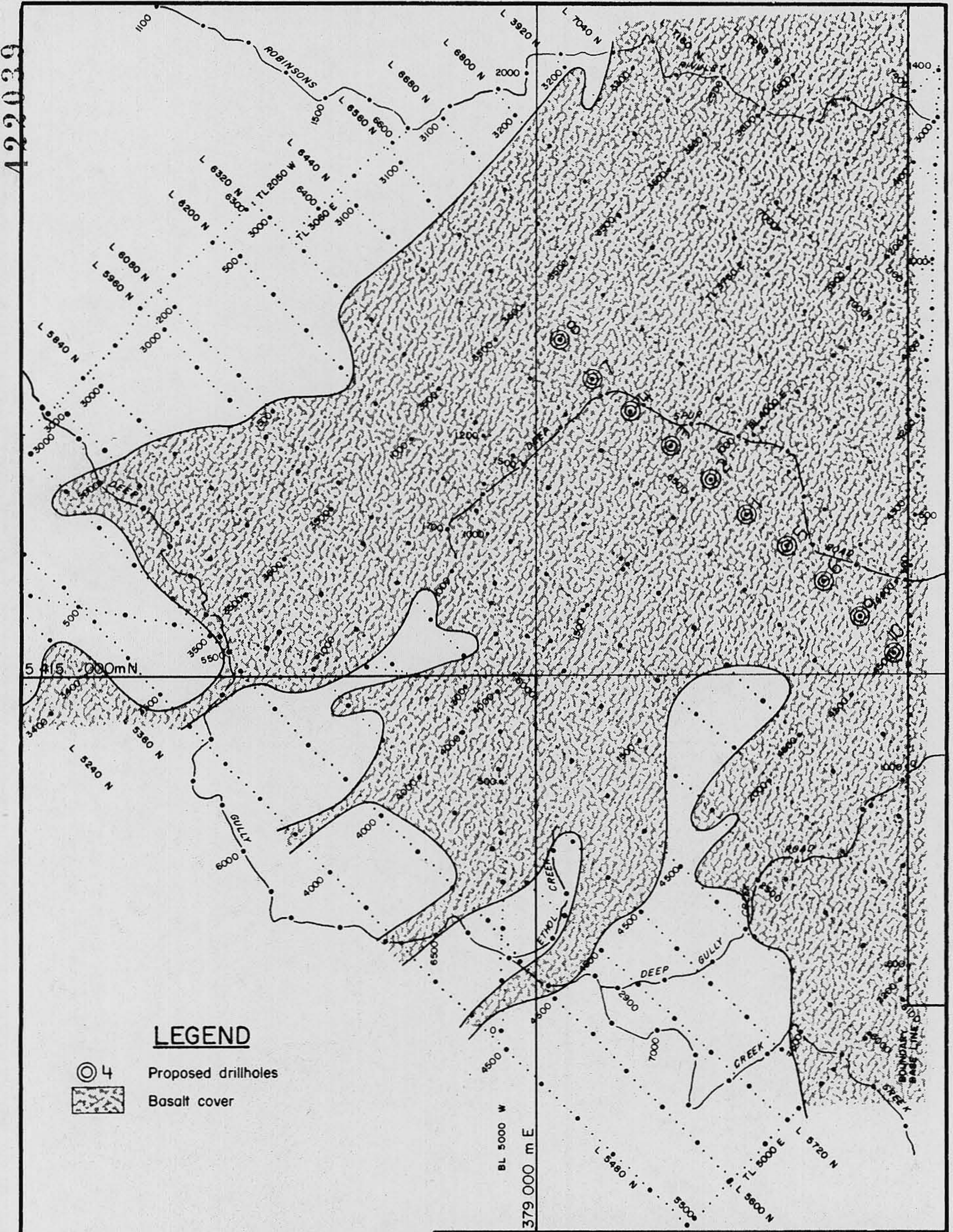


COMSTAFF PROPRIETARY LIMITED

EL 5/63 AREA I 031
MAGNET/ARTHUR RIVER
PLAN TO ACCOMPANY **ANNUAL** REPORT
1/7/83 - 30/6/84

COMPILED	DRAWN	SCALE	
J.A.L.	GEODRAFT	1 : 50000	TAS/2/1897

U15 422039



LEGEND

◎ 4 Proposed drillholes

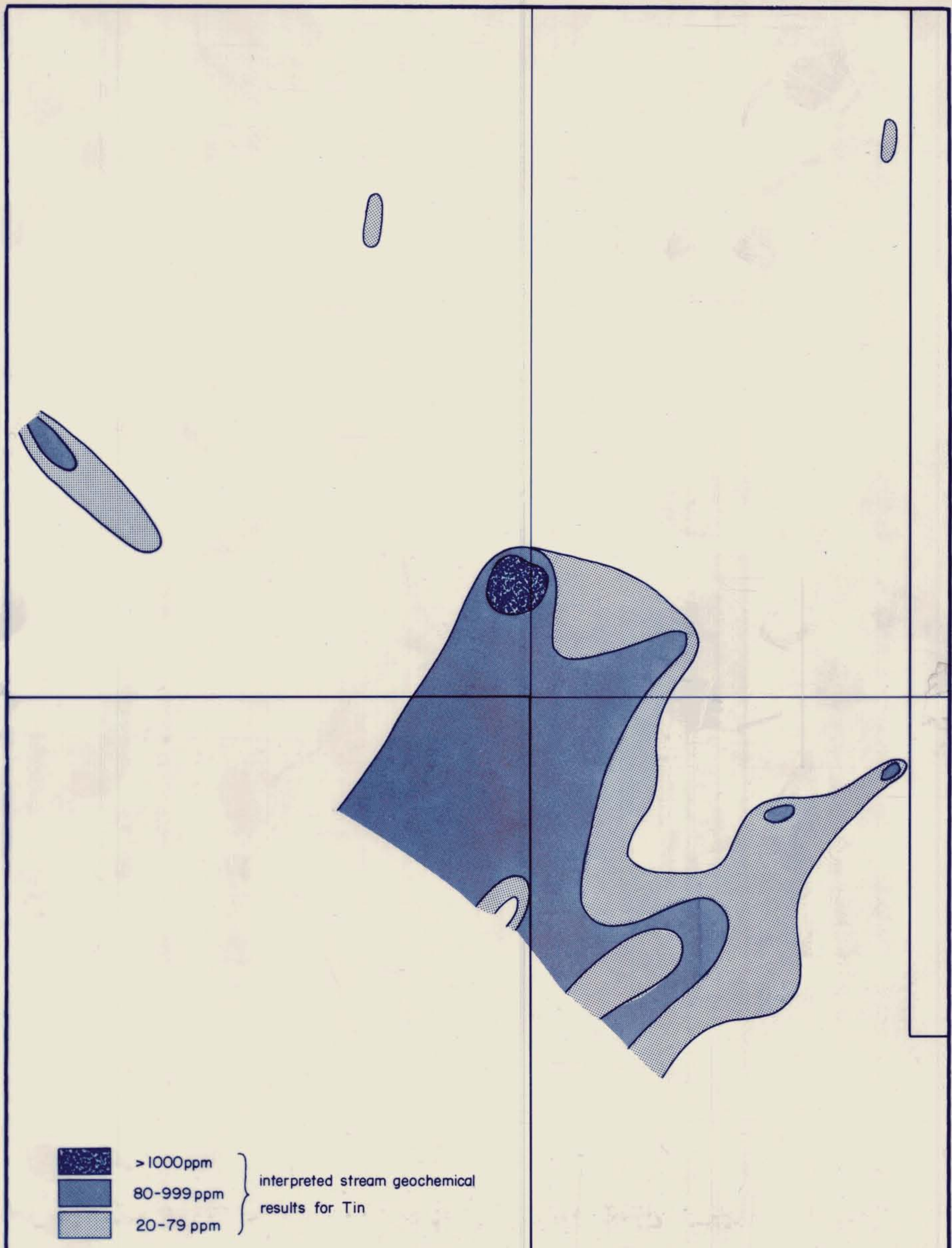
▨ Basalt cover

5 cm

COMSTAFF PROPRIETARY LIMITED

DEEP GULLY CREEK GRID
PLAN SHOWING LOCATION OF PROPOSED DRILLHOLES & APPROXIMATE BASALT COVER

COMPILED J. A. LEVINGS	DRAWN GEODRAFT	DATE 22/12/83	AMENDED
LEASE No EL 5/63	AREA 1	SCALE 1 : 10 000	PLAN No TAS/2/3780



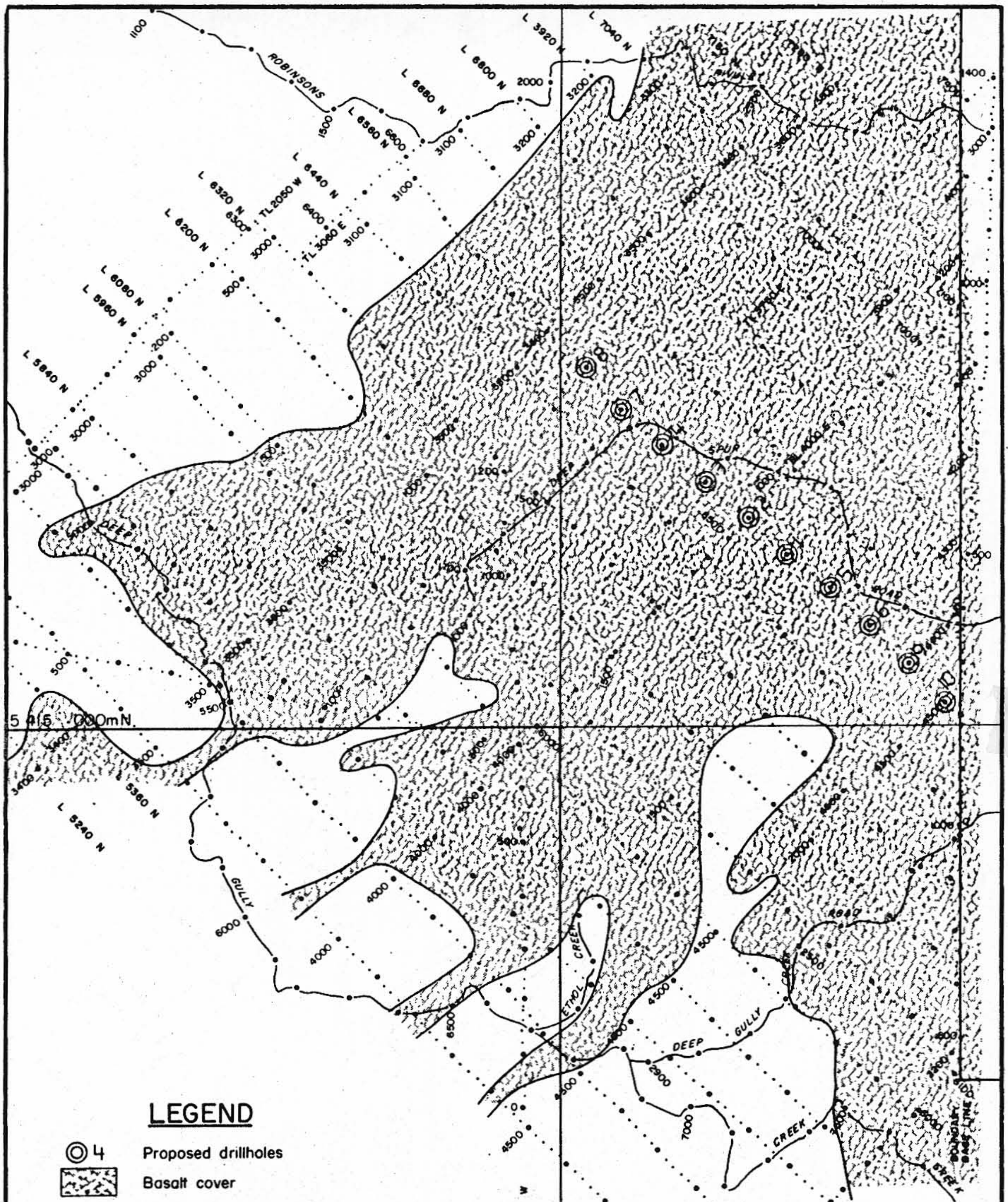
5 cm

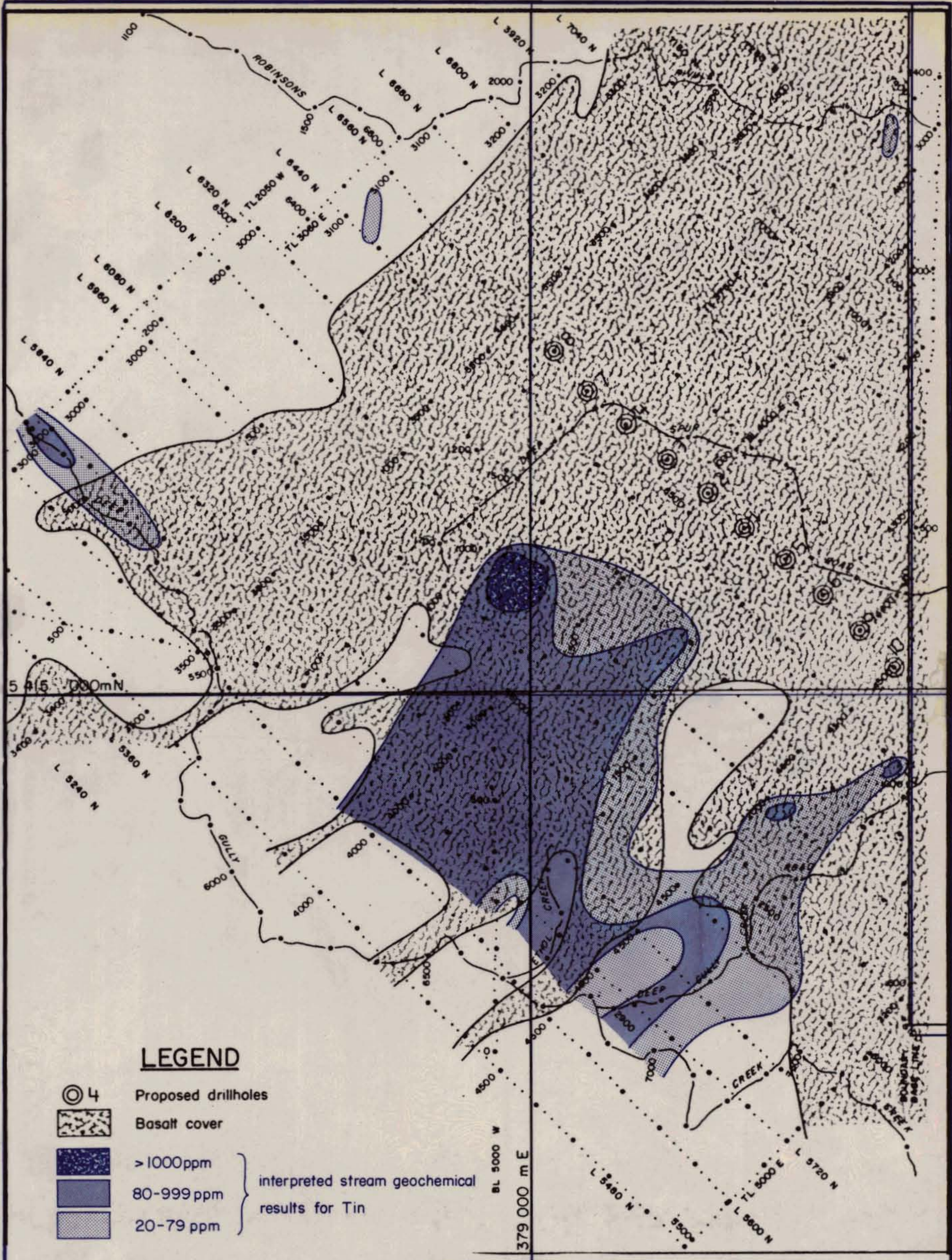
422040

COMSTAFF PROPRIETARY LIMITED

DEEP GULLY CREEK GRID
OVERLAY TO TAS/2/3780 SHOWING
INTERPRETED TIN STREAM GEOCHEMISTRY

COMPILED J. A. LEVINGS	DRAWN GEODRAFT	DATE 22/12/83	AMENDED
LEASE No EL 5/63	AREA 1	SCALE 1 : 10000	PLAN No TAS/2/3781


LEGEND
◎4 Proposed drillholes
▨ Basalt cover
ROBINSONS
L 3920 N
L 7040 N
L 6800 N
L 6680 N
L 6560 N
L 6440 N
L 6320 N
L 6200 N
L 6080 N
L 5960 N
L 5840 N
TL 2050 W
TL 3060 E
DEEP
SPUR
ROAD
5 415 000mN
L 5360 N
L 5240 N
GULLY
ETHOL CREEK
DEEP GULLY
CREEK
BOUNDARY BASALT LINE
BL 5000 W
379 000 mE
L 5480 N
TL 5000 E
L 5600 N
L 5720 N



LEGEND

◎4 Proposed drillholes

▨ Basalt cover

▨ >1000ppm

▨ 80-999 ppm

▨ 20-79 ppm

interpreted stream geochemical results for Tin

COMSTAFF PROPRIETARY LIMITED

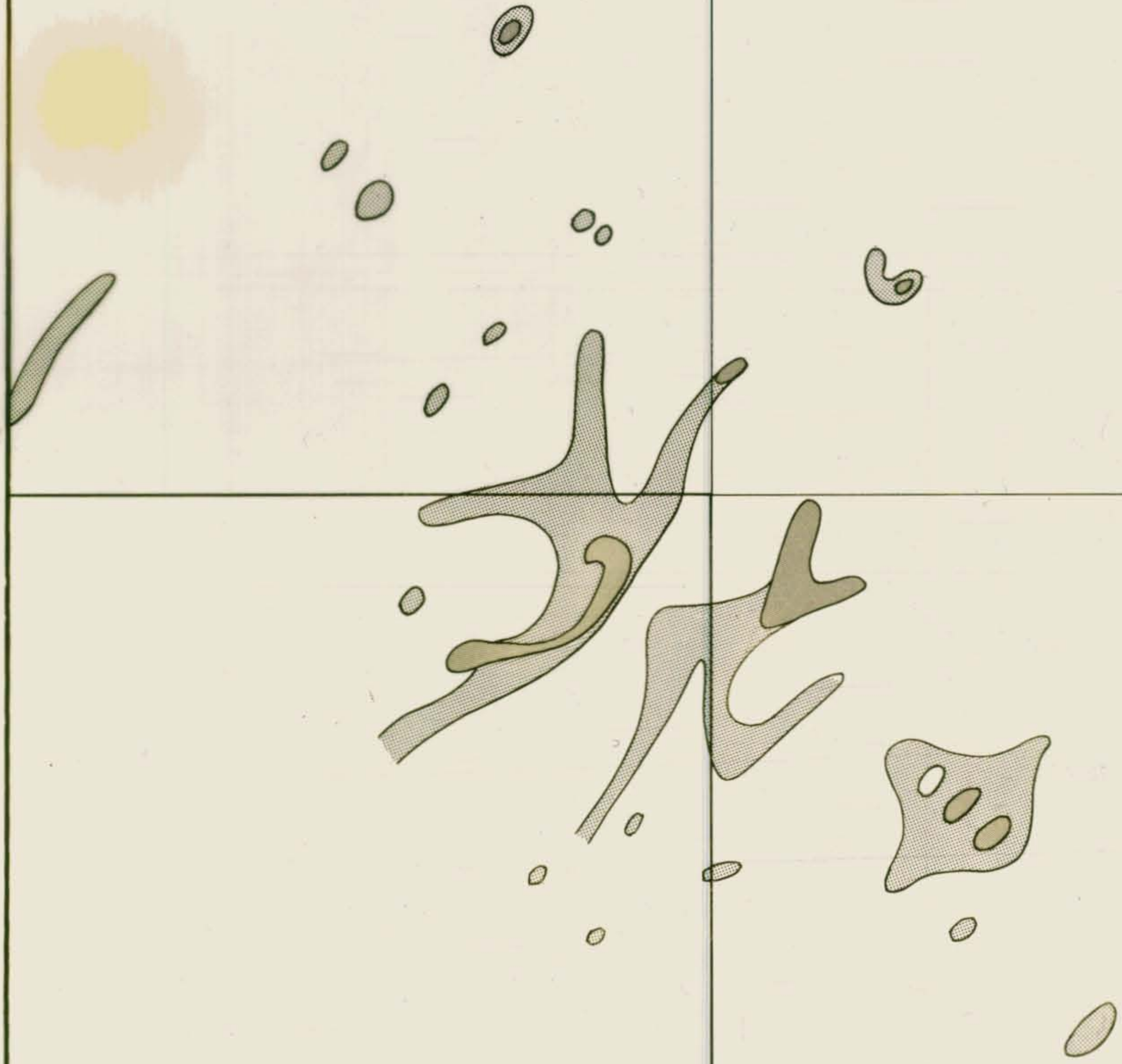
422041

DEEP GULLY CREEK GRID
OVERLAY TO TAS/2/3780 SHOWING
INTERPRETED TIN STREAM GEOCHEMISTRY

COMPILED	DRAWN	DATE	AMENDED
J. A. LEVINGS	GEODRAFT	22/12/83	
LEASE No	AREA	SCALE	PLAN No
EL 5/63	I	1 : 10 000	TAS/2/3781

5 cm

422040



▨	>30ppm
▒	15-29 ppm

interpreted soil geochemical results for Tin

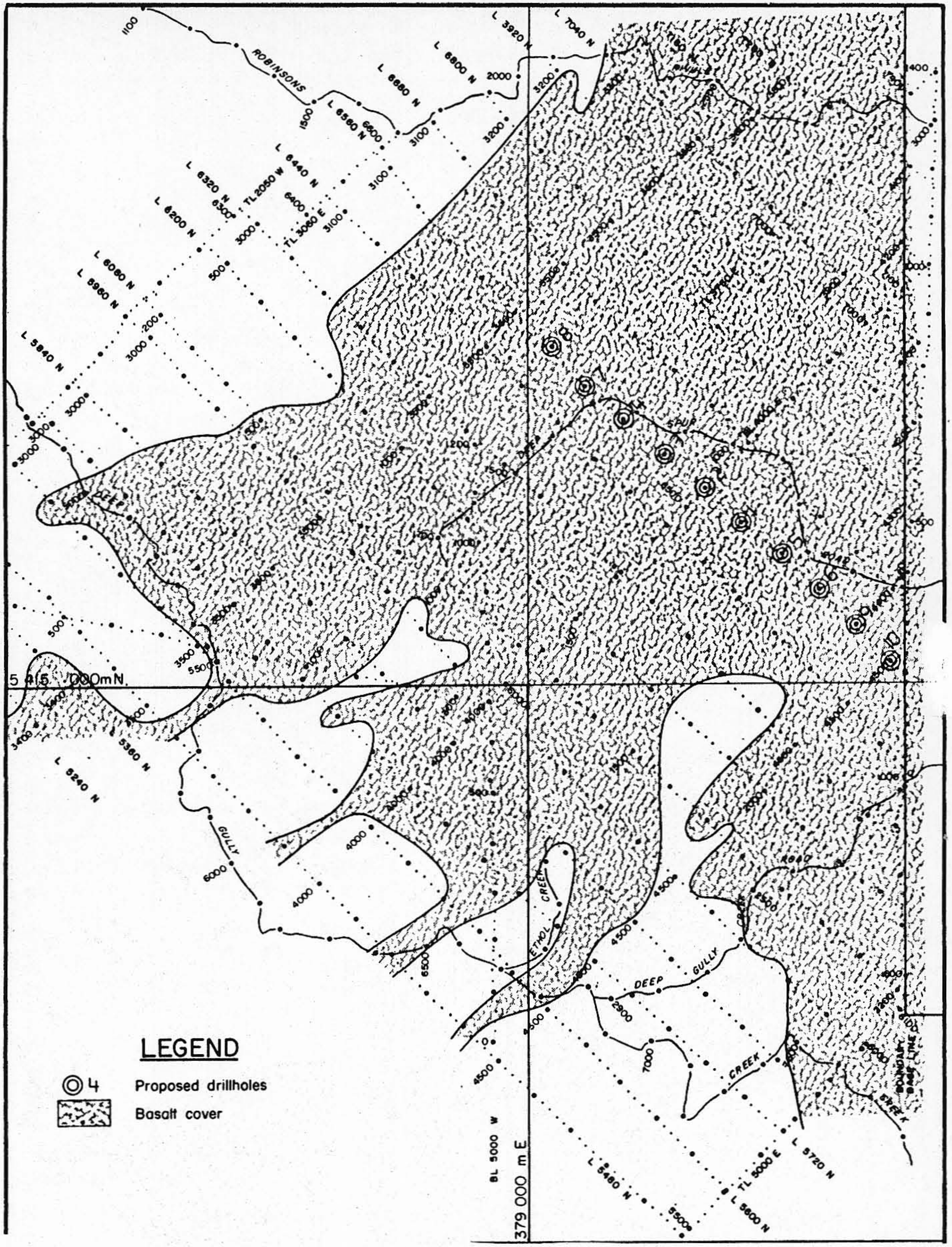
5 cm

422042

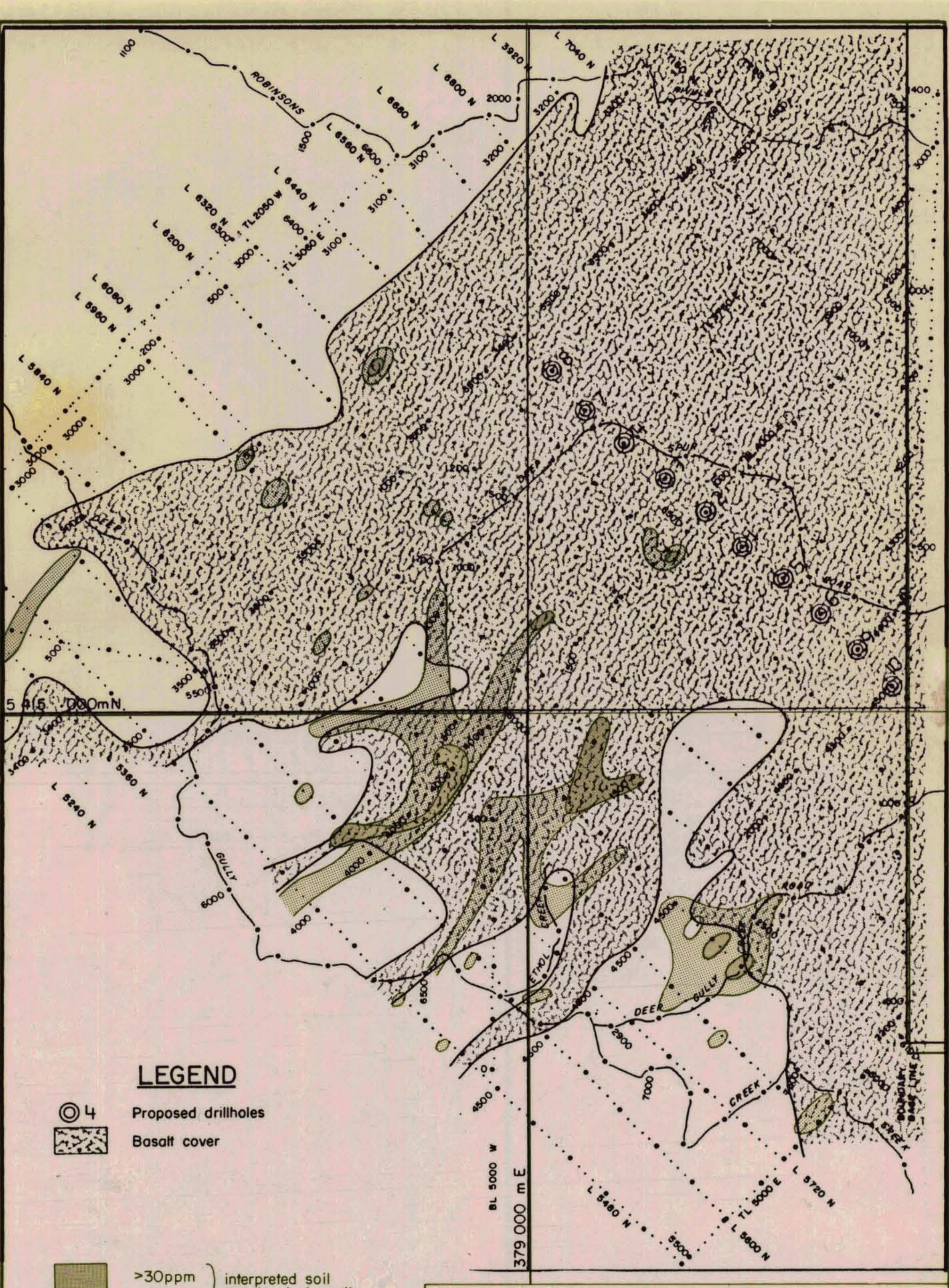
COMSTAFF PROPRIETARY LIMITED

DEEP GULLY CREEK GRID
OVERLAY TO TAS/2/3780 SHOWING
INTERPRETED TIN SOIL GEOCHEMISTRY

COMPILED J. A. LEVINGS	DRAWN GEODRAFT	DATE 22/12/83	AMENDED
LEASE No EL 5/63	AREA 1	SCALE 1 : 10 000	PLAN No TAS/2/3782


LEGEND
◎4 Proposed drillholes
▨ Basalt cover
5 415 000mN.
379 000 mE
BL 5000 W
L 3920 N
L 7040 N
L 6800 N
L 6680 N
L 6560 N
L 6440 N
L 6320 N
L 6200 N
L 6080 N
L 5960 N
L 5840 N
L 5360 N
L 5240 N
L 5480 N
L 5600 N
L 5720 N
TL 2050 W
TL 3060 E
TL 5000 E
ROBINSONS
DEEP
GULLY
SPUR
ROAD
ETHEL
CREEK
DEEP GULLY
CREEK
BOUNDARY BASE LINE
1
2
3
4
5
6
7
8
9
10

422043



COMSTAFF PROPRIETARY LIMITED

DEEP GULLY CREEK GRID

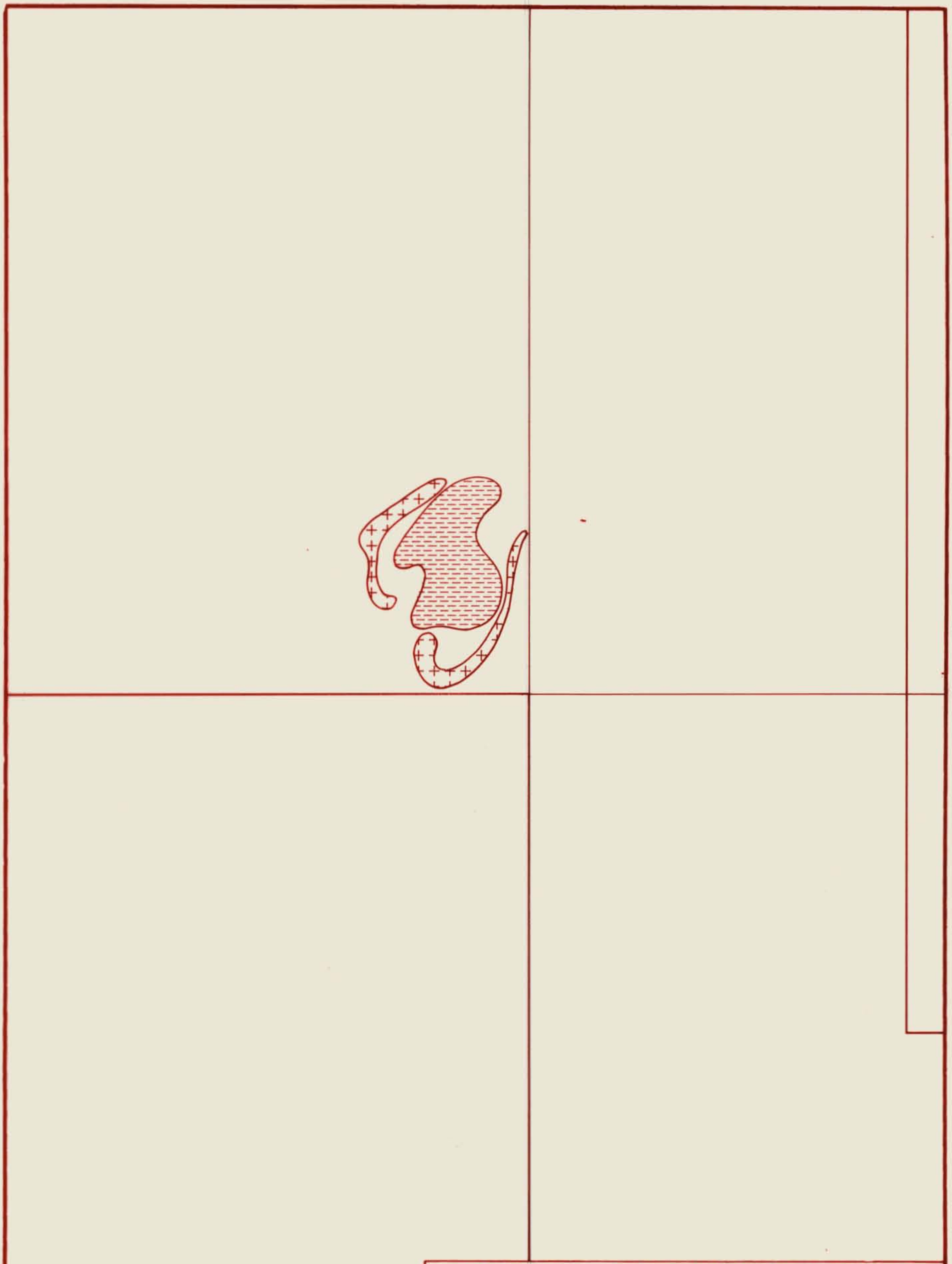
OVERLAY TO TAS/2/3780 SHOWING

INTERPRETED TIN SOIL GEOCHEMISTRY

COMPILED: J. A. LEVINGS
DRAWN: GEODRAFT
DATE: 22/12/83
AMENDED:
LEASE No: EL 5/63
AREA: 1
SCALE: 1 : 10 000
PLAN No: TAS/2/3782

5 cm

422042



▦ +Ve } interpreted ground magnetics
▤ − Ve } anomalous zones

5 cm

472044

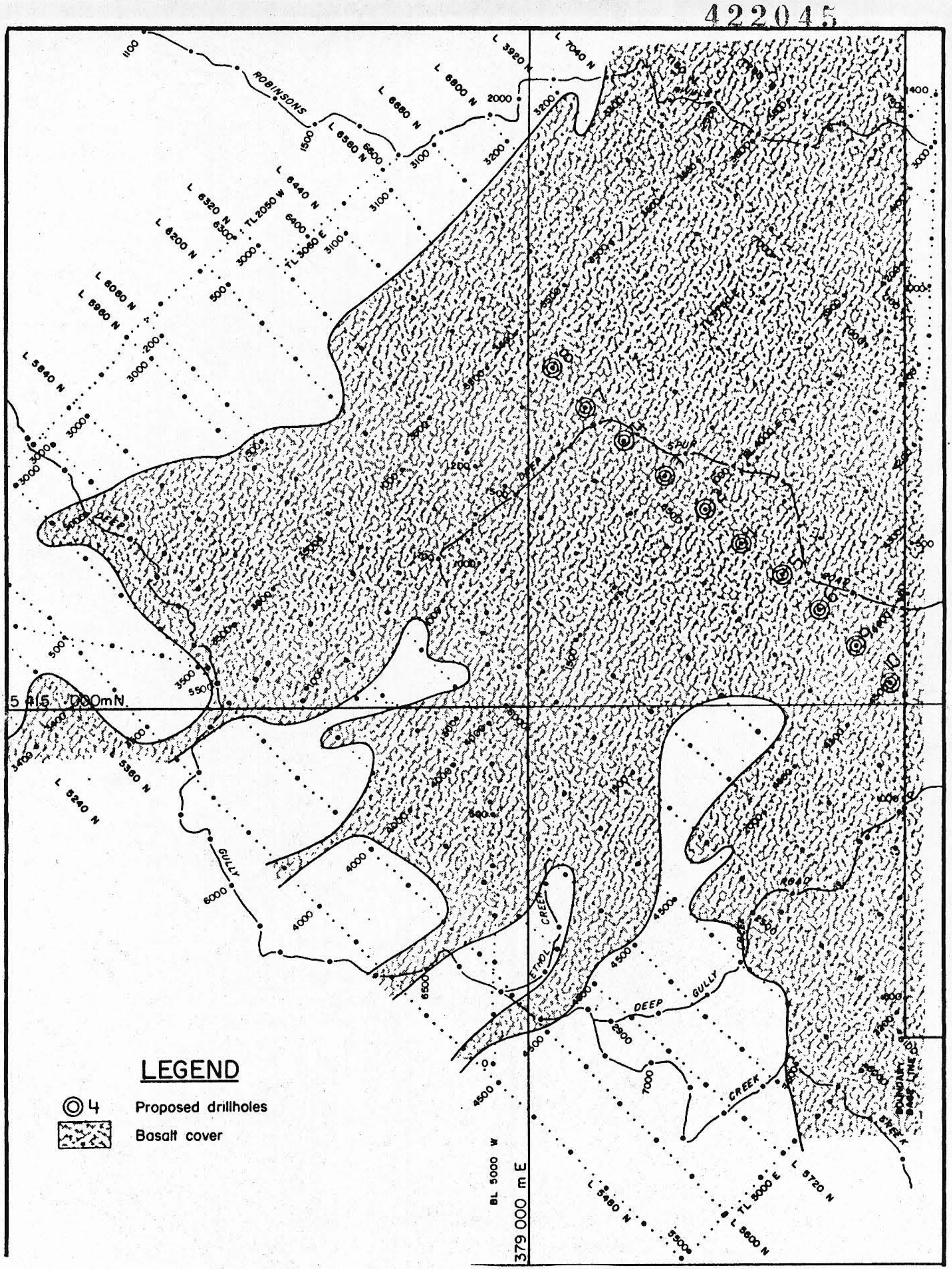
COMSTAFF PROPRIETARY LIMITED

DEEP GULLY CREEK GRID
OVERLAY TO TAS/2/3780 SHOWING
INTERPRETED GROUND MAGNETIC ANOMALIES

COMPILED J. A. LEVINGS	DRAWN GEODRAFT	DATE 22/12/83	AMENDED
LEASE No EL 5/63	AREA 1	SCALE 1 : 10 000	PLAN No TAS/2/3783

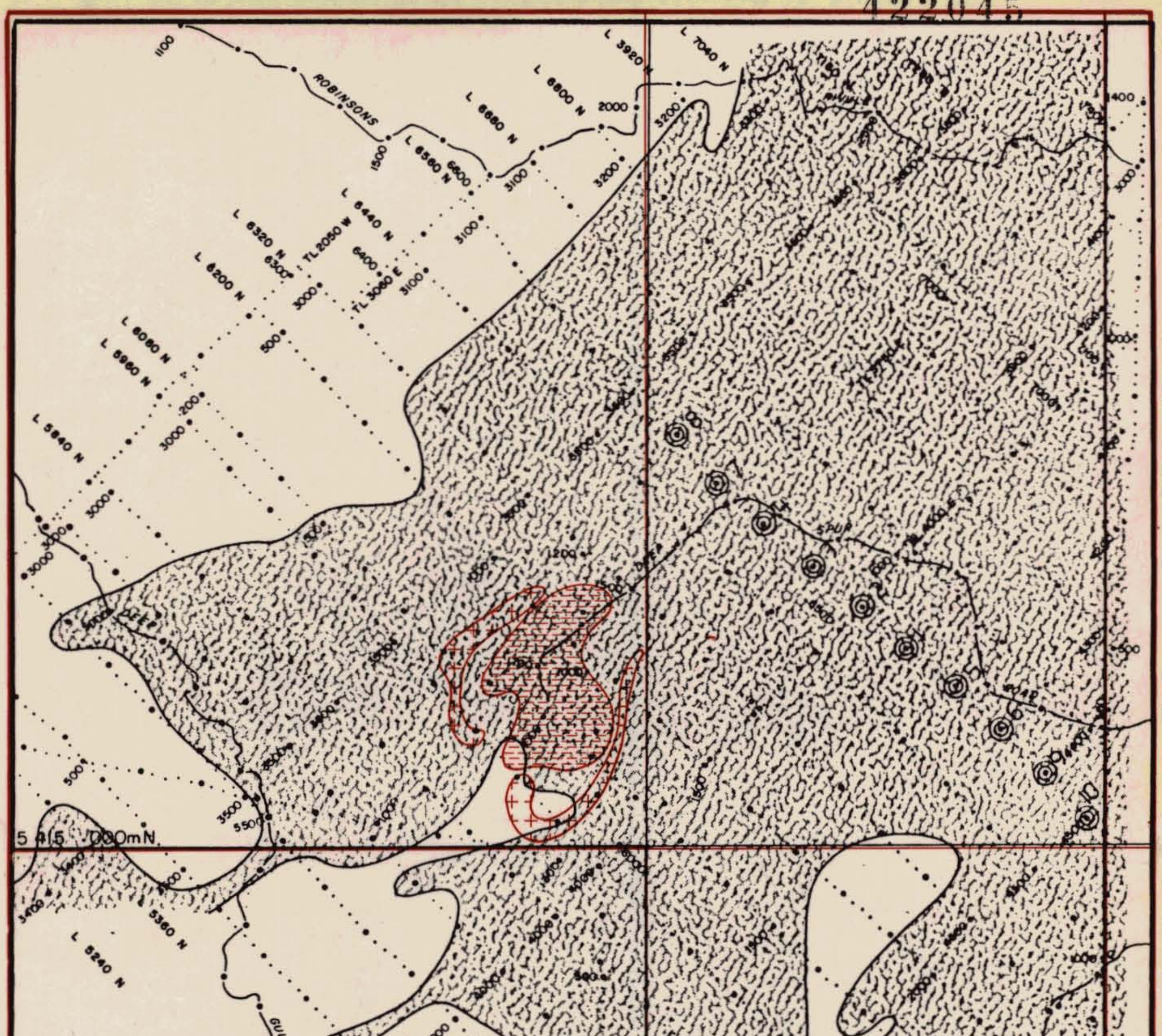
018

422045


LEGEND
◎ 4 Proposed drillholes
▨ Basalt cover
ROBINSONS
DEEP
GULLY
ETHOL CREEK
DEEP GULLY CREEK
SPUR
ROAD
CREEK
L 3920 N
L 7040 N
L 6800 N
L 6680 N
L 6560 N
L 6440 N
L 6320 N
L 6200 N
L 6080 N
L 5960 N
L 5840 N
L 5360 N
L 5240 N
L 5460 N
L 5600 N
L 5720 N
TL 2050 W
TL 3060 E
TL 4000 E
TL 5000 E
BL 5000 W
BOUNDARY BASE LINE
5 415 000mN
379 000 mE

018

422045



✚ +Ve	interpreted ground magnetics
▤ − Ve	anomalous zones

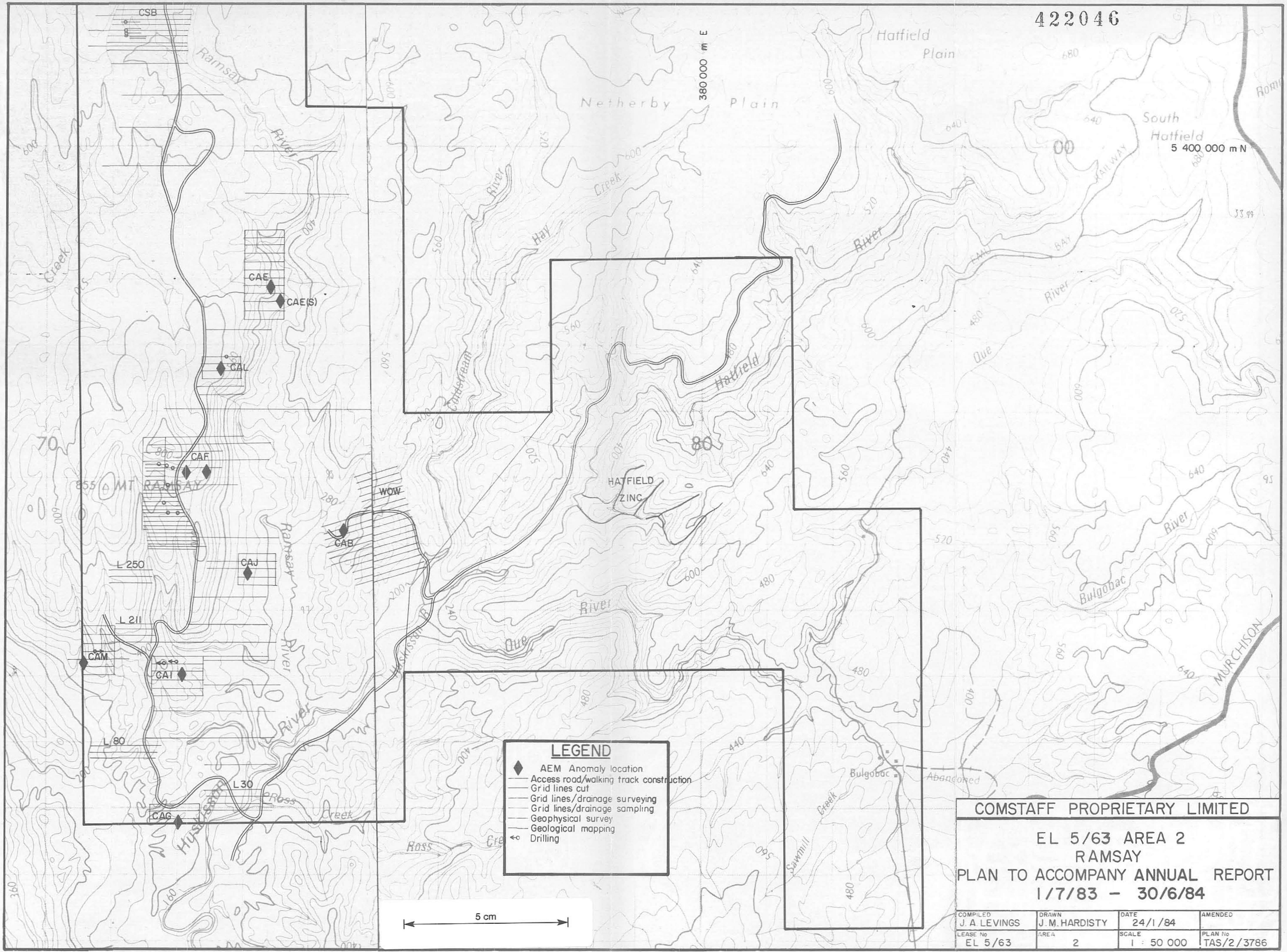
5 cm

COMSTAFF PROPRIETARY LIMITED

DEEP GULLY CREEK GRID
OVERLAY TO TAS/2/3780 SHOWING
INTERPRETED GROUND MAGNETIC ANOMALIES

COMPILED	DRAWN	DATE	AMENDED
J. A. LEVINGS	GEODRAFT	22/12/83	
LEASE No	AREA	SCALE	PLAN No
EL 5/63	1	1 : 10000	TAS/2/3783

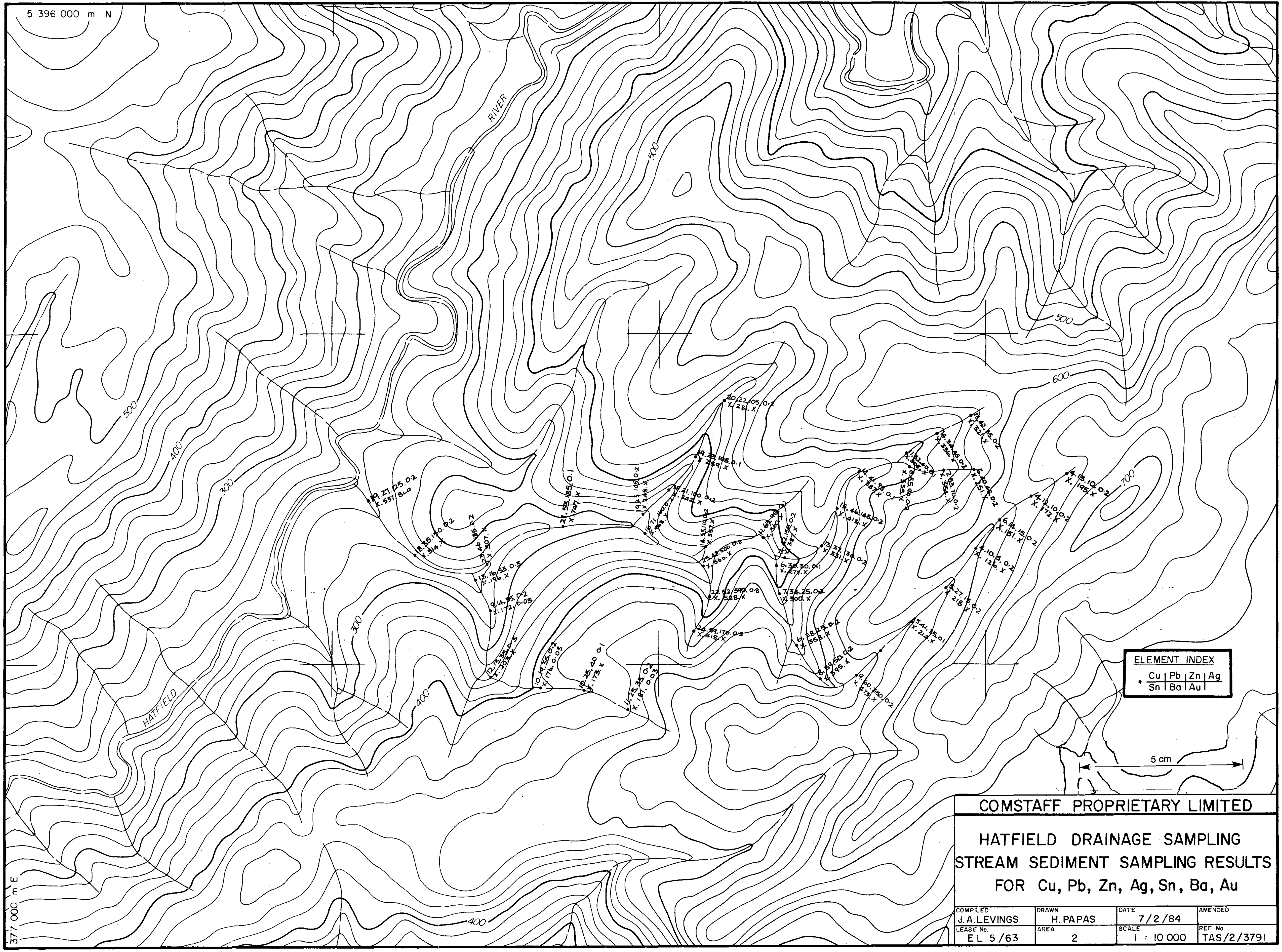
422044



COMSTAFF PROPRIETARY LIMITED

EL 5/63 AREA 2
RAMSAY
PLAN TO ACCOMPANY ANNUAL REPORT
1/7/83 - 30/6/84

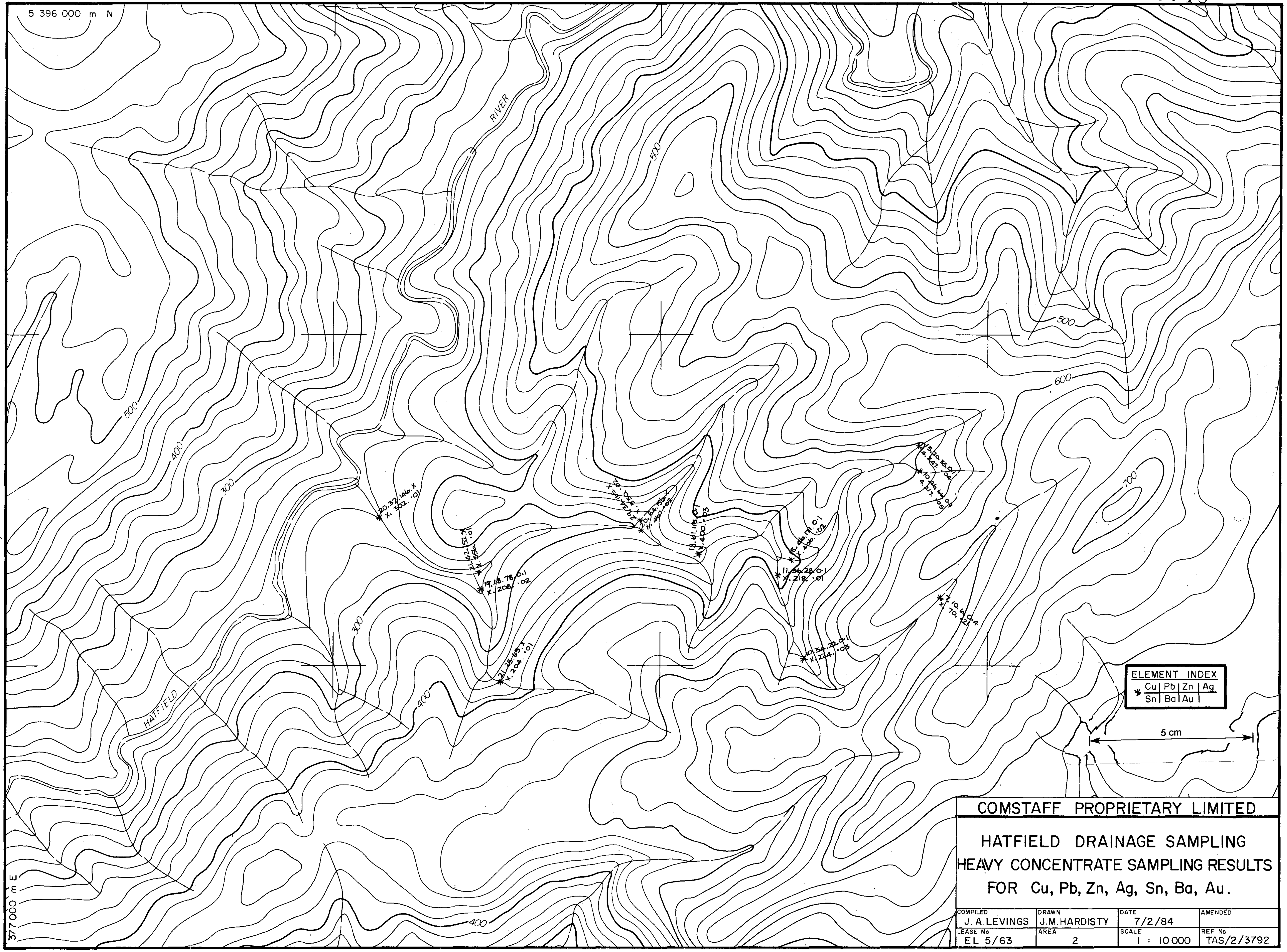
COMPILED J. A. LEVINGS	DRAWN J. M. HARDISTY	DATE 24/1/84	AMENDED
LEASE No EL 5/63	AREA 2	SCALE 1 : 50 000	PLAN No TAS/2/3786



COMSTAFF PROPRIETARY LIMITED

HATFIELD DRAINAGE SAMPLING
STREAM SEDIMENT SAMPLING RESULTS
FOR Cu, Pb, Zn, Ag, Sn, Ba, Au

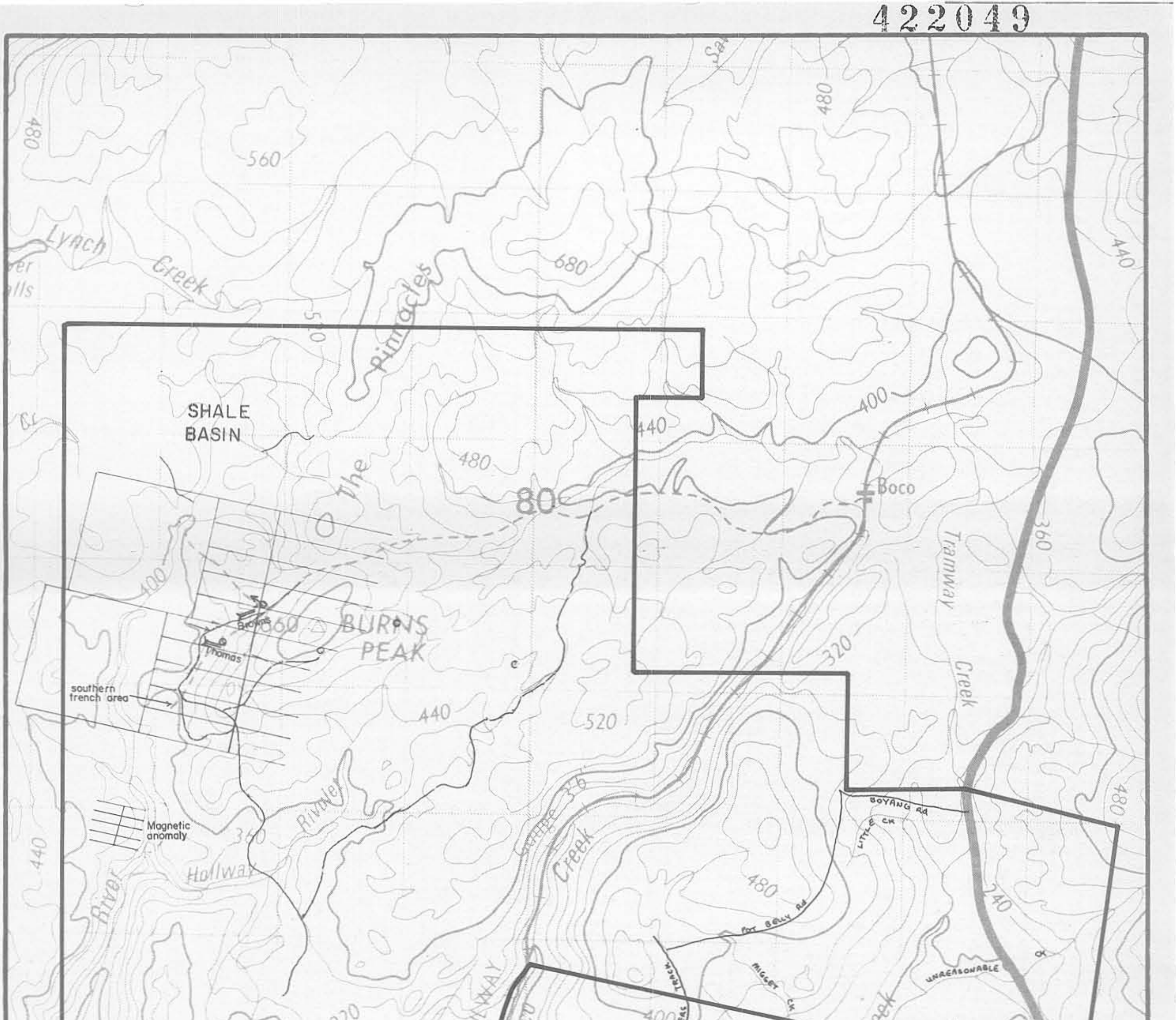
COMPILED	DRAWN	DATE	AMENDED
J.A.LEVINGS	H.PAPAS	7/2/84	
LEASE No.	AREA	SCALE	REF No
EL 5/63	2	1 : 10 000	TAS/2/3791



COMSTAFF PROPRIETARY LIMITED

HATFIELD DRAINAGE SAMPLING
HEAVY CONCENTRATE SAMPLING RESULTS
FOR Cu, Pb, Zn, Ag, Sn, Ba, Au.

COMPILED	DRAWN	DATE	AMENDED
J. A. LEVINGS	J.M. HARDISTY	7/2/84	
LEASE No	AREA	SCALE	REF No
EL 5/63	2	1 : 10 000	TAS/2/3792



LEGEND

- Access rd/walking track construction
- Grid lines cut
- Grid line/drainage surveying
- Grid line/drainage sampling
- Geophysical survey
- Geological mapping
- ←○ Drilling

5 cm

COMSTAFF PROPRIETARY LIMITED

EL 5/63 AREA 4
CHESTER/PINNACLES
PLAN TO ACCOMPANY ANNUAL REPORT
1/7/83 - 30/6/84

COMPILED R.H.R.	DRAWN GEODRAFT	SCALE 1 : 50 000	TAS/2/1801

THOMAS' TUNNEL

	71·6	71·9	72·9	74·3	75·3	76·3	77·6 78·6 m	
Au	·27	0·31	0·14	0·08	0·26	0·30	0·07	ppm
Ag	64	114	155	170	2230	262	73	ppm

BROWNS OPEN CUT

	0·5	1·5	2·5 3·5m	
Au	4·7	24·5	2·3	ppm
Ag	123	196	64	ppm

BROWNS TRENCH

	157·6m 159m
Au	25·9ppm
Ag	324 ppm

COSTEAN 14

	0	1 2·3m	
Au	5·07	0·98	ppm
Ag	270	12	ppm

BROWNS TUNNEL

	29m 37m
Au	2·7 ppm
Ag	11 ppm

BROWNS TUNNEL

	1m 6m
Au	1·67ppm
Ag	22 ppm

DUNIAMS DIGGINGS

	0 1·3m
Au	0·14ppm
Ag	3·5 ppm

MC GUINESS' WORKINGS

	8·9m 11·0m
Au	0·15 ppm
Ag	17·5 ppm

MC' GUINESS' SHAFT

Au	5·71 ppm
Ag	18 ppm
Au	46·2 ppm
Ag	24 ppm

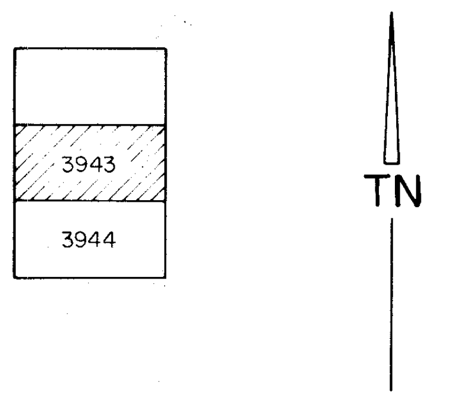
COSTEAN 17A

	48m 49m
Au	0·14 ppm
Ag	8·5 ppm

COSTEAN 17 W

	58·5m 59·5m
Au	0·94 ppm
Ag	28·5 ppm

422050



COMSTAFF PROPRIETARY LIMITED

LEASE No EL 5/63

AREA 4

AMENDMENTS
1 28/3/84 8
2 9
3 10
4 11
5 12
6 13
7 14

PINNACLES PRECIOUS METALS PROSPECT

LOCATION AND VALUES FOR Ag/Au

COMPILED R. H. ROBERTS

DRAWN J. M. HARDISTY

DATE 25/5/84

SCALE 1 : 2500

REF No TAS/2/3943

KARPET COS TRACK

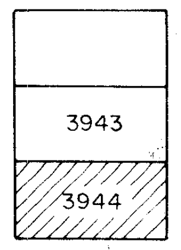
	0	2	4·1	5·3m
Au	0·09	0·17	0·63	ppm
Ag	32·5	9·5	8	ppm

SOUTHERN TRENCH 2

	36	39	42	43	45	47	49	50	51	54·5	58m
Au	0·84	0·94	40·2	64·2	2·11	2·56	1·80	3·02	0·61	0·19	ppm
Ag	26	40	113	185	121	95	50	78	26	9·5	ppm

422051

5 cm

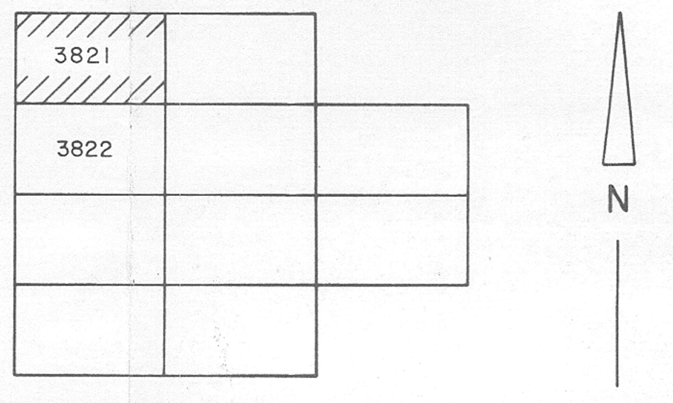


TN

COMSTAFF PROPRIETARY LIMITED

LEASE No EL 5/63	PINNACLES PRECIOUS METALS PROSPECT	COMPILED R. H. ROBERTS
AREA 4	LOCATION AND VALUES FOR Ag/Au	DRAWN J. M. HARDISTY
AMENDMENTS 1 28/3/84 8 2 9 3 10 4 11 5 12 6 13 7 14		DATE 25/5/84 SCALE 1 : 2500 REF No TAS/2/3944

025



422052

COMSTAFF PROPRIETARY LIMITED

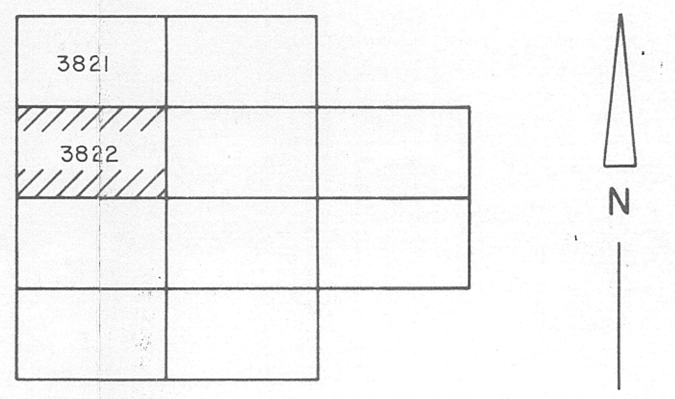
LEASE No EL 5/63	CHESTER - PINNACLES AREA	COMPILED R.H. ROBERTS
AREA 4	GEOLOGICAL INTERPRETATION PLAN	DRAWN J. HARDISTY
AMENDMENTS 1 8 2 9 3 10 4 11 5 12 6 13 7 14	TO ACCOMPANY MARCH 1984 REPORT	DATE 23/3/84 SCALE 1 : 5000 REF No TAS/2/3821

026

GEOLOGICAL LEGEND

	vo	coarsely brecciated volcanics and porphyritic lavas
TRANSITION ZONE	tu	tuffs 1/green fine grained porphyritic tuff (well foliated) 2/green/brown brecciated lithic lapilli tuff 3/pale felsic tuff
	sh	shales
	xtu	dark green crystal tuff
	ss	shales and tuffaceous siltones and sandstones
	carb	shales containing black carbonaceous pyritic shales
	sa	reworked tuffaceous lithic sandstone
	ch	silicified "cherty" mineralised horizon
	ba	Lead/barite mineralisation

422053



COMSTAFF PROPRIETARY LIMITED

LEASE No EL 5/63
AREA 4
AMENDMENTS 1 8 2 9 3 10 4 11 5 12 6 13 7 14

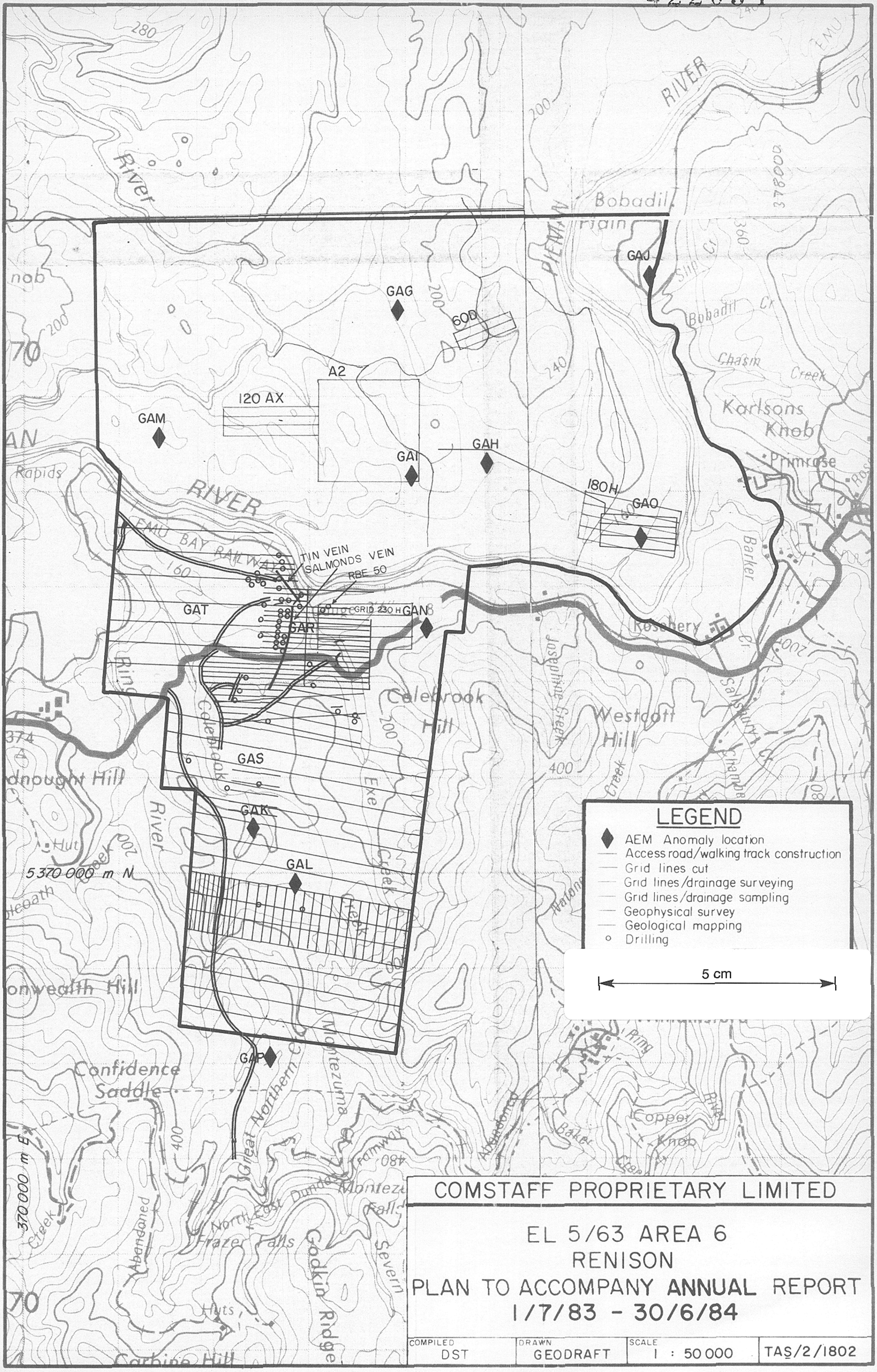
CHESTER - PINNACLES AREA
GEOLOGICAL INTERPRETATION PLAN
TO ACCOMPANY MARCH 1984 REPORT

027

COMPILED R. H. ROBERTS
DRAWN J. HARDISTY
DATE 23/3/84
SCALE 1 : 5000
REF No TAS/2/3822

032

422054



COMSTAFF PROPRIETARY LIMITED

EL 5/63 AREA 6
RENISON
PLAN TO ACCOMPANY **ANNUAL** REPORT
1/7/83 - 30/6/84

COMPILED	DRAWN	SCALE	
DST	GEODRAFT	1 : 50 000	TAS/2/1802

LEGEND

◆ GAG	AEM ANOMALY LOCATION
△ 60 A	DIGHEM ANOMALY LOCATION
▲ 200 C	DIGHEM ANOMALY LOCATION
(S)	FORMATIONAL MAGNETIC RESPONSE S = SERPENTINITE
═	FORMATIONAL DIGHEM RESPONSE
—P—	POWER TRANSMISSION LINE
▭	CUT / PROPOSED GRIDS

TAS/2/3824

SHEET INDEX

GN

422055

5 cm

COMSTAFF PROPRIETARY LIMITED

E.L. 5/63 AREA 6
RENISON
PLAN SHOWING LOCATION
OF WORK DONE

028

COMPILED	D. THYNNE, R. MUNRO
DRAWN	J. HARDISTY
DATE	29/3/84
AMENDED	
SCALE	1 : 10 000
PLAN No	TAS/2/3824

COMSTAFF PROPRIETARY LIMITED			
PROJECT	RENISON PROJECT		
AREA	EL 5/63 PART 6 - GRID GAR		
DATA	ROCK SAMPLE LOCATIONS		
COMPILED	D S Thynne	SCALE	1:1000
DRAWN	HR 4/84	REF No	TAS/2/3945
AMENDED			

422056

84 - 2133 1/2

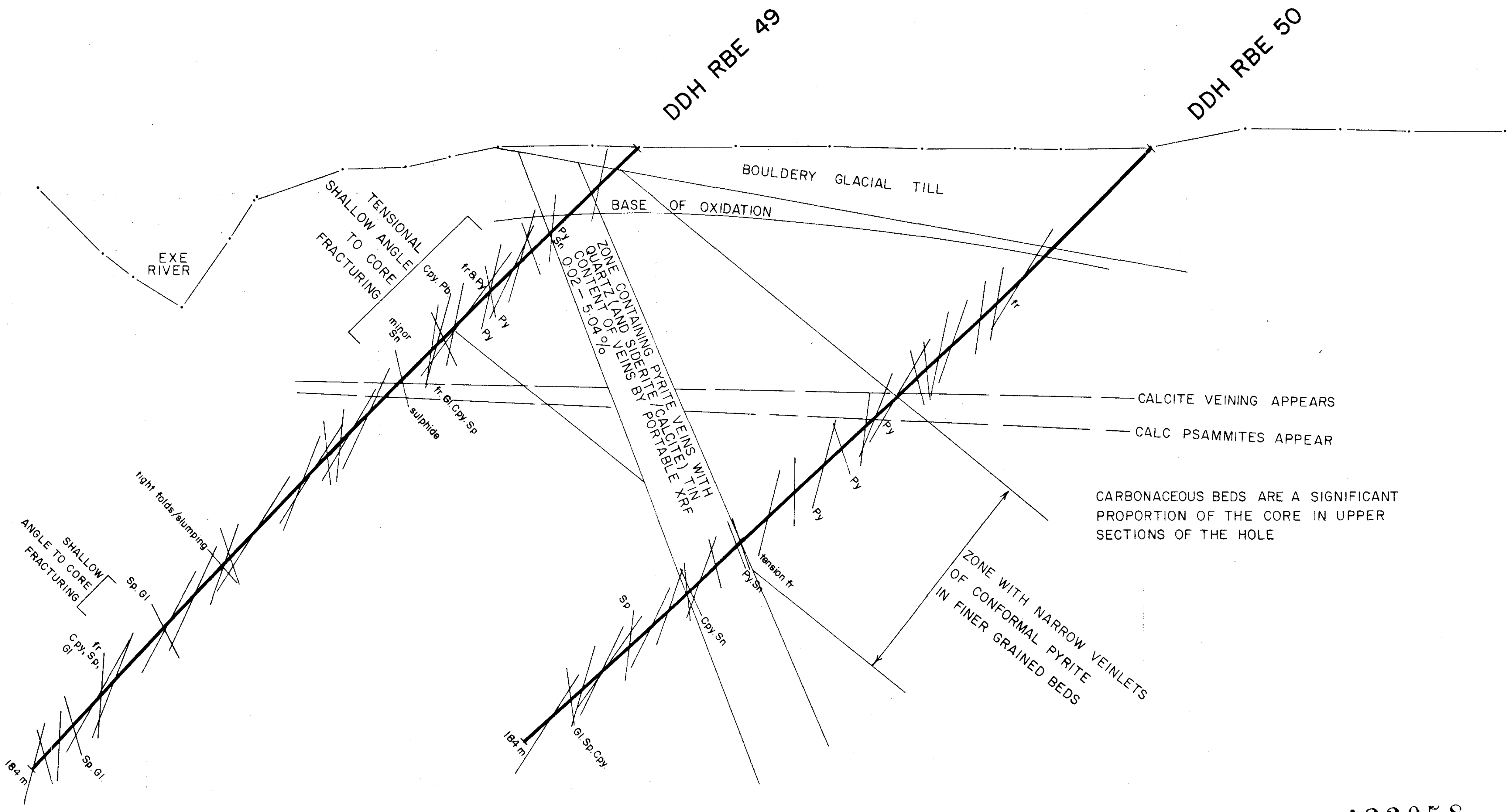
029

422057

COMSTAFF PROPRIETARY LIMITED			
PROJECT	RENISON PROJECT		
AREA	EL 5/63 PART 6 - GRID GAR		
DATA	ROCK SAMPLE LOCATIONS		
COMPILED	D S Thynne	SCALE	1:1000
DRAWN	HR 4/84	REF No	TAS/2/3946
AMENDED			

84-2133 1/2

030



CARBONACEOUS BEDS ARE A SIGNIFICANT
PROPORTION OF THE CORE IN UPPER
SECTIONS OF THE HOLE

422058

5 cm

fr = fracture
Sp = Sphalerite
Gl = Galena
Cpy = Chalcopyrite
Py = Pyrite

COMSTAFF PROPRIETARY LIMITED

RENISON GRID - GAR

SECTION OF DRILLHOLES DDH RBE 49,50

GEOLOGICAL INTERPRETATION

COMPILED D.S. THYNNE	DRAWN J. HARDISTY	DATE 24/5/84	AMENDED
LEASE No EL 5/63	AREA 6	SCALE 1 : 1000	PLAN No. TAS/2/3942

DRILLHOLE LOG.

R.B.E. 39

2

422060

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG

SUMMARY SHEET

HOLE EXTENDED
from 238-335m
27·7·83 to 7·8·83.

PAGE 1
OF 3

PROJECT EAST RENISON AREA GAR. GRID. DRILLHOLE TYPE Diamond NO RBE 39.

CO-ORDS E 372818·7 N 5373197·2 DECLN 45° AZIMUTH 258°m RL 123·0m

DATE COMMENCED 29/6/82 27/7/83 DATE COMPLETED 11/7/82 7/8/83. DRILLED BY LONGYEAR DRILL RIG LONGYEAR 38

GEOLOGIST(S) Relog summary. To compliment previous Logs. D. S. Skyrme 1983

SURVEY DATA INSTRUMENT EASTMAN CAMERA

DEPTH	CORRECT DEC^{LN}	AZIMUTH	DEPTH	CORRECT DEC^{LN}	AZIMUTH
0	45	258° m	237	46·5	250°m
30	45·5	257·5°m	239	46·75	247°m
60	46·5	257·5°m	269	47·0	247°m
90	47·25	258°m	299	47	245°m
120	47·25	256°m	329	47	246°m
150	47·5	255°m			
180	47·25	254°m			
210	47·25.	252°m			

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
[illegible]7·50 m.	Triconed.		
7·5-13·6 m	GABBRO, dk greenish gy. Chloritic. limonite on fractures, broken.		
13·6-18·7 m.	greenish gy fine grained silicified banded phyllites. Brecciated. Extensively microfractured ~~[illegible]~~		
18·7-40·0 m.	Greenish gy, gy gr fine grained altered banded phyllites, bands less 5mm.		
	Extensively silicified, chloritised. Bedding 0-18°∠c.	lim on fractures to 32·0m.	
	axinite vein 32·35m. 10-15mm wide 18°∠c.	Brown staining of beds from 32→	
40·0m-60·8m.	Greenish gy banded phyllites and more massive f gr Metasandstones.		
	Competent Breccia (HEALED) 60·55-60·80m. Sed clasts to 25-30mm.		
	Calcite blebs and venlets and on fractures begin. 43·3·0m.		
	Mica, chlorite, epidote. calcitic. alteration.		
60·8-73·5m.	Predom. f gr banded phyllites, - silicified, calcareous, chlorite. Some tuff Metasa. 71·30-73·5		
	66·8-67·8 Pale whitish gy TALC CARBONATE. Though not soapy is greasy. Lower contact 43°∠c		
	68·17-70·0 Variable Talc Carbonate alt as above. 15°∠c top 35°∠c at bottom. Vein as below.		
	70·0-70·8 700mm wide qtz-Sid V (50-50 of each) to 70·35. Qtz dominant in lower part.		
	Py aggregs at 70·8m. Top trend 42°∠c.		
	Siderite begins: 60·9m. with 30+mm wide qtz-Sid vein.		
73·[illegible]-75·0	Greyish Calc Pelites. first appearance of main calcic Veination. To 10%. Bedding 55°∠c.		
75·0-80·6.	Yellowish greenish gy massive tuffaceous sandstone.	to 10% Veination	
80·6-83·0	Dk & Lt gy banded tuff sa and cal pelites. Bedding 50°∠c.		
83·0-89·4	Yellowish greenish gy altered GABBRO. Increase Talcose feel to rock downwards.		
	83·50-84·0 400mm wide qtz V 40-45°∠c.	Contact of Gabbro at 89·40. 10°∠c.	
	85·55-85·85 Siderite c̄ qtz V. extends in vein stockwork to 86·2.		
89·4-91·0	Pale gy Talc Carbonate - silicified horizon.		
91·0-147·2	Greenish gy - yellowish greenish gy, brownish banded altered phyllites. (and some tuff ss)		
	Chlorite - epidote - phlogopite alteration etc. Epidote commoner towards margins of unit.		
	Beds partly calcareous. Microfractured microcalcareous veinations.		
	Bedding 30-45°. at 140·6-141·2 fold nose ?		
	96·90-97·10m. 200mm wide qtz V. c̄ siderite aggregates. Vein 60°∠c. Veining less below 97·2		
	146·5m - 147·90m. Two qtz-Siderite V. 20mm & 40mm wide. 55° & 30°∠c. Trace Po.		
	146·5 appears to be beginning of veination. again. - associated with below.		
147·2-151·85.	Mottled, spotted talc Carbonate altered GABBRO. Some slate inclusion, Partly calcareous.		
	147·85 20mm wide vein 30°.		
	149·0 " " " "		
	149·50 Slate - gabbro contact 40°∠c.		

3

422061

PAGE 2 OF 3

COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

PROJECT EAST RENISON AREA GAR GRID DRILLHOLE TYPE DIAMOND NQ RBE 39

CO-ORDS E 372818.7 N 5373197.2 DEC^LN 45° AZIMUTH 258°m RL 123.0m

DATE COMMENCED / / DATE COMPLETED / / DRILLED BY LONGYEAR DRILL RIG LONGYEAR 38

GEOLOGIST(S) Relog summary. To compliment previous Logs. D S

SURVEY DATA INSTRUMENT EASTMAN CAMERA

DEPTH	CORRECT DEC^LN	AZIMUTH	DEPTH	CORRECT DEC^LN	AZIMUTH
0	45	258°m	237	46.5°	250°m
30	45.5	257.5°m	239	46.75	247°m
60	46.5	257.5°m	269	47.0	247°M
90	47.25	258°m	299	47	248°m
120	47.25	256°m	329	47.	246°m.
150	47.5	255°m			
180	47.25	254°m			
210	47.25.	252°m			

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
151.85–153.	30% qtz VEINS to 120mm wide 40-60°∠C.	In sa, dk gy shales.	
15[illegible]. – 154.8	Extensive Clay alt. Siderite vein with py 154.8.	Turquoise coloured Carbonate? sulphate. 154.8.	
154.8 – 163.0	TALC CARBONATE brownish – lt gy – whitish streaky – copy top.		
	turquiose foliated colour	159.30 – 163.	contains veining as below
	156.80–159.30 veining MULTIPLE.		
TIN VEIN	156.85 45-50mm wide. Approx 36°∠C. Talc Carb above trend also 36°. Black specks in = Sn?		
ZONE.	157.2 qtz V. 40mm wide. 58°∠C. With 20% Arsenopyrite. near margins		
	157.9 – 158.9 qtz. Contact 53°∠C. Includes String of Sphalerite aggreg 158.3.		
	= Tin. [157.95 40mm wide bluish greenish qtz vein. contains.		
	mineralises. (58°∠C. trend)	Scorodite. 1578–158.3	= 0.207% Sn.
	158.9 – 159.3. qtz V c̄ pyritised po, minor Sp, gal, Cpy. Approx 40°∠C. Has siderite margins.		
	Vein 350mm wide.		
163.0 – 164.7	Semi pervasive Talc Carb alteration and Serpentinite. at 163.0 contact 55°∠C.		
164.7 – 169.75	Fine banded, foliated altered siltstones dk gy shales. Partly brecciated zones of.		
	Epidote – chlorite – actinolite – tremolite – (siderite – qtz), mica alt. (Greenschist facies)		
	Incipient talc carbonate alteration.		
16[illegible]5 – 185.9.	Banded, foliated epidote, chlorite altered phyllites etc. as above. Microfractured, microveination.		
185.9 – 205.10	Greenish gy, Brown, yellowish gy and pale gy phyllite, and coarser units		
	Includes altered calc pelite bands. Units tend to coarsen downhole.		
	Intraformational folding and few kink folds, Microfracturing, micro veination,		
205.10 – 209.4	Convoluted beds of silicified, partly calcareous altered sa, ss.		
	209m. 20mm wide 23°∠C SPHALERITE V c̄ galena and Aspy Sp to 80% of vein...		
209.4 – 211.90	Two GABBRO Horizons. – mixed with black shales.		
211.40 – 228m.	Dark grey, Black carbonaceous pyritic shales. predom. Minor tuff sa horizons.		
	Veination from 213.05 downwards becomes increasingly significant.		
	Shale beds more sooty – porous texture like (tensional effect) below 233.4m.		
	213.05 – 213.2. 70mm wide 38°∠C. Siderite, qtz multiple vein. 15mm wide central zone c̄ Cpy.		
	222.6 – 223.6 qtz-sid vs. Widest 60mm. Main trend 10–15°∠C. also 50°∠C trend.		
	229.45 – 229.65. 4 qtz-Aspy-siderite veins. 10–25mm wide each.		48°∠C.
	Upper vein contains galena, sphalerite, and Chalcopyrite. Approx 20% Aspy		
	230.0 – 230.15 70mm wide Aspy Vein.		
	232.4 – 232.5 100mm massive py c̄ qtz margin. 90% py.		
	232.9 – 233.4 Qtz-sid – Cp/py veins Influence by two trends		
	EOH 228m. HOLE CONTINUED TO 335m Aug 1983. SEE NEXT PAGE.		

PAGE 3
OF 3

COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

422062

HOLE EXTENSION.

PROJECT EAST RENISON AREA GAR GRID DRILLHOLE TYPE Diamond NO RBE 39

CO-ORDS E 372818·7 N 5373197·2 DEC^{LN} 45° AZIMUTH 258°m RL 123m

DATE COMMENCED 27/7/83 DATE COMPLETED 7/8/83. DRILLED BY LONGYEAR. DRILL RIG LONGYEAR 38

GEOLOGIST(S) O S [illegible].

SURVEY DATA			INSTRUMENT		
DEPTH	CORRECT DEC^{LN}	AZIMUTH	DEPTH	CORRECT DEC^{LN}	AZIMUTH
0	45	258	237	46·5.	250
30	45·5	257·5	239	46·75	247
60	46·5	257·5	269	47·0	247
90	47·25	258	299	47	245
120	47·25	256	329	47	246
150	47·5	255			
180	47·25	254			
210	47·25.	252			

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
[illegible]8 - 239·1	Core Loss		
239·1 - 293·15	Black carbonaceous pyritic shales few dk grey	Pyrite veins common. Both coformal	
	to light grey narrow siltstone, sandstone beds	and across bedding. Aggregs rather	5-10%
	Ball and pellets of sa etc in shales and	than veins occur in disturbed zone	
	friable and brecciated appearance between	between, 261-278·5m.	
	249·3 - 249·8m; 241·6 - 242·7 m	Dissem py and wisps throughout.	
	245·7 - 246·0m, 254·75 - 254·8 m.	Some py concentrated on	margins of clasts.
	260·45 - 261·0m 263·4 - 266·65m (veined)		
	284 - 284·3 m, 290·4 - 293·15m (later 2 sa fragments larger, in sh matrix)		
	Other less intermixed sh/sa/ss horizons 273·4 - 275·4m, 277·55 - 278·0m.		
	Bedding 23 - 52°∠C, mainly at 0-15°∠c 255·65 - 256·6m.		
	Narrow QUARTZ VEINS with pyrite, minor siderite and		
	black shale fragments to 261.		
	Increase brecciation towards 261m. Main fractures 38-50°∠C.		
	261-263·4 Multiple QUARTZ VEINING. **261m to 261·22** 22mm W 24°∠C vein with **Sphalerite.**		**Sp to 261·2 40%**
	261·5 - 262·0 15mm W barren Qtz at top, grades down into replaced shale. -		
	30cm of Sphalerite, in qtz and shale		Sp 15%
	262·8 - 263·4 Qtz V + Stockwork c̄ Aspy. **(Contains Sn ?)**		**Sn grade**
	263·4 - 266·65 Reticulated network of quartz veins in brecciated black sh.		
293·15 - 335m	Pale to med grey tuffaceous sandstones. Sandstones = 80% most		
	units graded. Some siltstone beds and tops to graded units. Minor Black		
	shales 333 - 337·4m **and as** alternating narrow beds **318·3 - 319·85.**		
	GRADING, and thus Younging downhole (to west) to **314·15m** appears to		
	be several fold axis Contact with shales above - **58°∠C.** Generally		
	bedding 40-58°∠C between 293·15 - 314·15. 20 to 30°∠C to E.O.H		
	Microfracturing and narrow veins misplace beds slightly. Major veins this		
	zone as follows + Fracture.		
	312·15 - 314·55. **QUARTZ VEIN** 45mm TW 17°∠C. between 313·72 314	GAL/SP/Cpy	35% of V.
	adjacent qtz network and folding. Central V c̄ sharp margin.		 dragged or folded bedding
	327·55 - 327·8 qtz vein. 40mm TW 19°∠C. Some py, no other sulphides.		Special layers in Qtz.

422063

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERALS
					45.0 46.0 47.0 48.0 50 52 54 56 58 60	TUFFACEOUS SANDSTONE Greenish grey micaceous/chloritic banded tuffaceous sandstone and siltstone with intercalated bands of more massive tuffaceous sandstone exhibiting irregular, contorted areas of black carbonaceous partings and sporadic areas of slump brecciation Alternating competent and fragmented zones of core.	mica chlorite epidote free bands. Trace to 0.5% carbonate veining and fracture infillings – partially oxidising banded exhibiting vuggy appearance to core – still under influence of supergene/weathering zone		49.0 - B.C.A. 35° 51.0 B.C.A 15° 52.0 B.C.A. 30° 53.0 B.C.A 10° 55.0 B.C.A 35° 60.0 B.C.A 55°	NIL essentially Traces of py. assoc with partings of black shale.	

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 39

LOGGED BY ………… FROM ………… TO ………… DATE …/…/… PAGE …… OF ……

DRILL ADVANCE

LOST CORE | DEPTH | DRILL ADVANCE INTERVAL | CORE RECOVERY | PERCENT RECOVERY

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERAL
60	(60.50 - 60.80) Slump breccia - clasts of banded tuff/ca. in black shale matrix. Thereafter massive tuffaceous siltstone with black carbonaceous partings & deformation textures	open vugs persist to 66.80.	45	60.50 B. CIA 40° 61.0 V. CIA 45° 61.40 V. CIA 40°	61.0 5cm Qtz carb. vein 61.40 dolo-veinlets	
62						
64						
66	66.40 - 67.50 Pale grey brown TALC CARBONATE 67.50 - 73.60 Massive green grey deformed Tuff Siltstone with upto 15% shale content plus. 10cm band of Talc Carb. Becomes (71.0m) compact & massive [illegible] and [illegible] deformation features			66.80 Upper Contact broken 67.50 Lower Contact 45° 67.50 B.CIA 70° 68.80 B.CIA 45°-50°		
68						
70					70.0 70.0cm Sulphide (20%) (Qtz(Boo?)) vein Trace [illegible] UCIA 45° LCIA 65°	
72		72.60. 10% Calcite veining + fracture infillings.				
74	73.60 - 75.0 Pale grey & dark grey banded typical CALC PELITE.			73.60 B.CIA 45°-50° 74.0 B.CIA 55°		
75						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH ....

LOGGED BY .... FROM .... TO .... DATE ../../.. PAGE ..... OF .....

422064

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VIS PERCE MINERAL
					75.0 76.0 77.0 78.0 79.0 80.0	75.0 - 80.60 Brownish grey massive TUFFACEOUS SANDSTONE with interbedded narrow bands (<10 cms) of fine grained Sa and SILTSTONE. Rare partings of black SHALE (more frequent towards base + possible CARC PELITE bands)	10% Calcite (white) veining + fracture infillings.		76.50 B. CIA 55° 78.00 B CIA 55°	Sporadic narrow (<1.0cm) siderite qtz vein - trace py.	
					81.0 82.0	80.60 - 83.0 Narrow (<1.0cm) bands of Sa, SS, sh. + CARC PELITE - STREAKY/ appearance - bedding CIA increases down hole.	15% calcite veining + fracture infilling		80.60 B. CIA 70° 81.50 B. CIA 5° 82.50 S CIA 50°		
					83.0 84.0 85.0 86.0 87.0 88.0 89.0	83.0 - 89.20 Green grey massive TUFFACEOUS Sa with minor partings of streaky shale + siltstone? Becomes fractured / dislocated green and carbonated? at 86.10 - has appearance of altered BASALT. Some inclusions + stringers of grey TALC CARBONATE - overall talcose feeling to rock.	Chloritised - carbonated ?			83.50 40cms. mass. white qtz vein with inclusions of shale. Open vugs U. CIA 45° L CIA 40° minor siderite. 85.40 ↖ 90cms. siderite (qtz) 86.30 vein stockwork zone CIA's of 45° Trace Aspy.	
					90.0	89.20 - 91.0 Pale grey TALC CARBONATE, with inclusions of green Sa + black sh.			89.20 Contact CIA 10°		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH ....

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422065

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VIS. PERCENT MINERALISATION
				90.0						
				91.0	91.0 – ~~101.50~~ 113.20 Brownish grey competent massive TUFFACEOUS SANDSTONE medium to fine grained with rare bands of siltstone Approx 2-5% black calcareous Shale as irregular partings and narrow streaky seams – locally over narrow zones forms 5-10% of interval – distinctive slickensides associated with shale only.	Weak hornfelsing ?		91.0 Contact CIA 45°		
				92.0					92.0 20cms Qtz (calcite) vein 5-10% Apy V. CIA 45° LCA 45°	
				93.0		Selective Epidote? green alteration restricted to particular narrow bands streaky bands. – possibly calcareous horizons or sandstone with calc. matrix see 93.20.		93.20 BCIA 50° Sporadic weak banding with S deformation	93.20 BCIA 50°	
				94.0						
				95.0				95.0 BCIA 30°	95.0 B.CIA 30°	
				96.0						
				97.0					96.90 20cms. White qtz vein stockwork zone. + 10% yellowish cream siderite	
				98.0				98.40 B CIA 50°	98.40 BCIA 50° V CIA's of 60°	
				99.0						
				100.0						
				101.0					101.10 5cms. Vuggy siderite (qtz) vein Trace Cp Py. V. CIA 30°	
				102.0						
				103.0				103.50 B.CIA 45°	103.50 B. CIA 45°	
				104.0					104.20 2cms hydrothermal breccia veins + chlorite V. CIA 45° at right angles to bedding	
				105.0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH ....

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422066

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	MINER
					105.0	Fine to medium grain green grey TUFFACEOUS SANDSTONE as per previous page.	Hornfelsed?			Essentially barren approx. 1% sparse quartz veining & veinlets and calcite filled. fractures.	
					106.0						
					107.0						
					108.0						
					109.0						
					110.0						
					111.0						
					112.0						
					113.0	113.20. Massive brownish grey green TUFFACEOUS SANDSTONE but becoming markedly BANDED (laminae - graded bedding).	More pronounced selective epidote? alteration along selective thin sedimentary bands.		-113.70 B C/A 45-50° Bands 0.1-10 mm. in thickness.		
					114.0						
					115.0				-115.80 B. C/A 40°		
					116.0						
					117.0						
					118.0						
					119.0						
					120.0				120.0 B. C/A 40°		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH ....

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422067

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422068

DRILL ADVANCE

LOST CORE | DEPTH | DRILL ADVANCE INTERVAL | CORE RECOVERY | PERCENT RECOVERY

LITHOLOGY

INTERVAL | DESCRIPTION | ALTERATION | GRAPHIC LOG | STRUCTURE | MINERALISATION | VIS. PERCENT MINERALISATION

INTERVAL: 120 · 122 · 124 · 126 · 128 · 130 · 132 · 134 · 135

DESCRIPTION:

126.50

126.0 TUFFACEOUS. SANDSTONE

Banding becomes dominant feature of essentially sandstone unit – siltstone fraction probably on the increase within lithological laminae – Some apple green (epidote) bands very apparent are they calc. pelite ~~lenses~~? layers? preferentially altered (130–132 – weak Calc. Pelite Zone).

ALTERATION:

Hornfelsing

Rare calcite filling fractures

Selective replacement/ alteration of certain lithological bands now very obvious

STRUCTURE:

123.70 B.CIA 30°

126.60 B.CIA 45°

128.0 – B.CIA 45° - Minor kinking and deformation of bands Zone wavy banding

132.0 B.CIA 40°

133.50 B CIA 45° & 50°

MINERALISATION:

Loose dran.
P/o qtz veining and
qtz carbonate veining.

✓

SCALE 1:100 (1cm = 1 m)

122.50

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH ....

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422069

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
					135.				135.60 B.CIA 40°	
					136.					< 1% qtz and qtz carb veining
									137.0 B CIA 45° + 50°	
									137.80 B. CIA 40°	
					138.				138.50 B CIA 25°–30°	
					140				140.60 – 141.20 B.CIA 25° – 0° – 30° Minor fold nose ?	
					142 .					
									143.60 B. CIA 30°	
					144 .				144.60 B. CIA. 45°.	
					146	146.50 – 149.50 Grey to dark grey (greenish) massive tuffaceous SANDSTONE in part bedded. medium to coarse grained. Irregular partings & seams of black shale			146.50. B. CIA 40°	146.50 2 cm vuggy prehnite vein CIA 55°. Trace Po.
										147.30 → 3cm carb. qtz vein
										147.85. trace Py. CIA 80° → 2cm vein ditto CIA 65°
					148					148.70 → 2cm. ditto. CIA 30°.
										149.00 → 2cm. ditto CIA 55°
					150 .	149.50 Mottled green grey GABBRO DYKE.				149.50 → GABBRO CONTACT CIA 40° Parallel to bedding.

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH

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422070

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERALI
					150 151.0	Mottled grey green GABBRO DYKE? (alt. tsa.?) – some inclusions of shale. and tuffaceous sandstone especially at base of zone				151.30 GABBRO CONTACT 35-40° 151.40 SHALE/tsa B CIA 20°	
					152.0	151.85.-153.0 Quartz vein stockwork (30%) in grey. tsa, ss + sh. TIN ZONE?			151.95. QV CIA 30° Quartz vein stockwork CIA's all sorts 30 to 60° 153.0 QV. CIA 50° 153.20 B. CIA 50°–30°	151.95. QV. CIA 30° QV's 1 to 10cm thick. white minor siderite – no apparent sulph. CIA's 30 35° 40 45° 50° 60° 153.0. QV CIA	
					153.0 154	153.0 – 155.20 Intensely CLAY ALTERED partially bleached friable/fractured f.gr. tsa, ss, & sh. –	CLAY ALTERED. VEIN CONTACT ZONE.		154.0 B. CIA 40° 154.50 V. CIA 45°	154.50 10cm. Siderite (vein) Qtz + Trace Py.	
					155 156 157 158 159	155.20 – 159.50 TALC CARBONATE Cream/white (bleached selvages to sulphide veins) + pale grey incipiently silicified + dolomitised? 15-20% sulphide bearing (pyrrho cp aspy). vein quartz overall. – probable TIN. source. 5-10% combined sulphide in veins + as. incipient replacement of TC.	Carbonated and sulphide impregnated basic/ultra basic zone.		155.20 Sheared + comminuted contact CIA 30° 157.90 158.20 V. CIA 51° 158.30 V. CIA 52° 158.60 V. CIA 42° 159.00 V CIA 56° 159.20 V. CIA 54° 159.50 V. CIA 55°	155.05. 5cm Qv. PoPy CIA 43° 156.80 3cm. Qv } AsPy CIA 40° 157.00 3cm. Qv } Py. " 60° 157.70 4cm. Qv } Po. " 50° 157.90 – Vein contact CIA 53° 30% vein quartz as. 3cm to 50cms veins 5-10% combined Po Py Cp. AsPy 1-2% siderite 159.50 – Vein contact CIA. 55°	
					160 161 162	159.50.-163.0 Pale grey + turquoise green streaked barren TALC CARBONATE	Carbonated Basic/ultra basic rock.		160.0 Foliation CIA 52° 161.10 Foliation CIA 55°	BARREN.	
					163 164 165	163.0 – 167.50 Incipiently bleached clay/dilute altered + in part fractured tsa, sh, ss., serpentinite and incipient talc carbonate CONTACT ZONE	CLAY ALTERED CHLORITE.		163.0 Contact CIA 55°		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH ....

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LITHOLOGY

422071

LOST CORE	DRILL ADVANCE DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERAL
					165.	See previous page. - mixed					
					166	sediment, serpentinite (talc carbonate) contact zone.					
					167	167.50-185.90			167.50 B.C.A 30°	167.20 - 171.0 5-7%. 167.50 yellowish/cream	
					168	Massive green grey. in part banded (laminae)	Hornfelsed/ green schist		Rare discernable	coloured carbonate/ quartz veining CA 50° at right	
					169	tuffaceous sandstone +	facies.			angles to bedding	
					170	siltstone - with intermittent	chlorite/mica		170.30 B.C.A 45°	No apparent sulphides	
					171	and irregular selvages.	alteration		bedding outside	171.0 Vuggy in part	
					172	partings + seams of black graphitic shale	especially in				
					173		banded		173.0 B.C.A 35° banded.		
					174		sequences.				
					175				zones.	175.10 0.5cm vuggy siderite (qtz) vein	
					176				Disrupted bedding		
					177						
					178				associated with		
					179				178.60 B.C.A 45° shale tongues		
					180.						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH ....

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DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENT MINERALISATION
					180				INTRA FORMATIONAL FOLDING ?		
					181						
					182						
					183				183.0 B. CIA 50°		
					184						
					185				185.50 B CIA 45°		
					186	185.85. – 209.50. An essentially banded / laminated sequence of pale green gray to brown & pinkish brown CALC PELITES (low carbonate) fine grained tuffaceous sandstones (may be fairly arenaceous with low basic volcanic component) and siltstones Rare black graphitic shale bands upto 3cm thick but exhibiting slump textures – see over.	Chlorite, muscovite/biotite? epidote, latter as selected discrete bands		186.20 B. CIA 54°		
					187				187.50 B. CIA 50°		
					188						
					189				189.20 B. CIA 60°		
					190				190.65 B. CIA 65°		
					191				191.80 B. CIA 20°		
					192						
					193				193.30 B. CIA 30°		
					194				194.70 B. CIA 50°		
					195						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH ....

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DRILL ADVANCE | **LITHOLOGY** | 422073

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					195						
					196	Shale units contain a jumble of subangular to subrounded fragments of tuffaceous sandstone upto 1·0cm in diameter			196·20 B. C/A. 196·90 B C/A 30° } Kinks 197·50 B C/A 30° micro on. small + micro? Shale. Scale		
					197						
					198						
					199				199 B C/A 48° fo		
					200				200·30 V. C/A 35°	200·30 3 cms carbonate qtz vein - some lines walls of vein C/A 35°	
					201				201·0 B.C/A 40° banding		
					202				202·0 B C/A 30° 202·60 B C/A 48°		
					203						
					204				204·30 B C/A 45°		
					205				205·40 B. C/A 45°		
					206					206·40 20cm. sheeted white qtz vein + minor carb. (siderite) with sp.	
					207	Unit becomes more graphitic and arenaceous (fine grained whitish pink sandstone) and calcareous towards base. 205-209·50			207·0 Minor fold nose. B. C/A's. 40° + 30°		
					208				208·60 B. C/A 30°		
					209	209·50 — 238·0 See over.			209·0 V. C/A 25° 209·40 B. C/A 35°	209·0 2cm. massive sphalerite/galena vein with minor carbonate + qtz	
					210						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH ....

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DRILL ADVANCE | **LITHOLOGY** | **422074**

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VIS PERCEN MINERAL
					20 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225.	209.50 - 238.0 Charcoal grey to black. competent graphitic (pyritic) SHALE - rarely obviously laminate and deformed / dislocated. although bedding swirls and S kinks are present. An unusually fine grained sequence with approximately 10% grey porous tuffaceous sandstone and smooth grey. siltstone composed of beds generally not exceeding, 1-5cms in thickness. Occasional pellets and clasts of sandstone embedded in shale units - but generally a lack of major slumped bedding features.			Microfolding + faulting - offsetting banded units 214.0 B CA 45°  217.60 B. CA 30° 221.0 B. CA 45° 222.90 V. CA 50° 223.0 V. CA 20°	Syngenetic disseminated fraction & vein. Pyrite 1 - 2.3% mainly veins 223.8. 4.0cm Qtz-carb vein 223.0 50cm. Sheeted qtz each vein 1% py	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH ....

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422075

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERC MINERAL
					225				-225.50 b.C.A. 55°		
					226	See previous page.					
					227				-227.50 b.C.A 40°		
					228						
					229						
					230					230. 10cm. Qtz AsPy vein AsPy. 40%. Carbonate 20%. C/A. 40°	
					231				-231.10 B.C.A 40°		
					232					232.40 10cm Py. Qtz (Cp) vein 232.90 Py 60%. Cp 5%. Tr. Sp Ga C/A 55° ↑ 12cm Siderite Qtz Py (Cp) vein - irregular bifurcating. 10-15% PyCp C.A. 55°.	
					233				-233.80 B.C.A. 40°.		
					234						
					235						
					236						
					237						
					238.0						
						EOH					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH ....

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DRILL ADVANCE

LITHOLOGY

422076

EXTENSION OF RBE 39 FROM 238m to 335m

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	238	1·1	0	0%	239	CORE LOSS. RUBBLE IN BOTTOM OF HOLE.			Quartz + siderite and pyrite veination to 239·1. Usually narrow, irregular.		
	239·1	2·9	2·9	100%	240 241 242	Black pyritic carbonaceous shales. Ball and pelletted shales between 249·3 – 249·8. Friable and brecciated between 241·6 – 242·7 245·7 – 246·0 Sooty - pitted texture in bed 10cm wide at 252m.	pyrite - mobilised into veins. dissem py syngenetic. Veins usually with some quartz. widest to approx 15–20mm.		239·7. qtz, py V. 28°∠C 8mm W. 240·8 py, qtz V. 46°∠c. 3mm W conformal. 241·15 py V 16°∠C 4 to 10mm W. 241·25 B @ 25°∠C. 241·6-242·7. Brecciated fract. zone. Main fracture and planes with graphitic slickensided surfaces. at shallow angle core. (0–15°∠C.)	pyrite as veins, wisps and as fine grained disseminations. 5–7%	
	242	3·0	3·0	100%	243 244 245				244·3. Beds and py veins approx 25°∠C. (py = 22°∠C)		
	245	3·0	3·0	100%	246 247 248						
	248	3·0	3·0	100%	249 250 251				248·15. B + py V = 33°∠C. 248·26 17mm wide 52°∠c. py + qtz vein. Roughly conformal. 249·35. Bedding plane fc. in top of breccia zone (ball and pellets) 52°∠c		
	251	3·0	3·0	100%	252 253				253. B @ 50°∠c.		
	254										

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 39 ext.

LOGGED BY D S Thyn FROM 238 TO 253m DATE 4/8/83 PAGE 1 OF 7

422077

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	254			
	257	3·0	3·0	100%
	260	3·0	2·9	96·6%
	263	3·0	2·8	93·3%
	265·3	2·3	2·18	94·7%
	267·7	2·4	1·6	66·6%

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
254 255 256 257 258 259 260	Black pyritic carbonaceous shales c̄ minor intercalated / interbedded dk to light grey narrow siltstone, tuffaceous sandstone beds. Brecciated 254.75 – 254.8. Friable (brecciated) 260.45 – 261.	pyrite with quartz as narrow conformal and as later cross veins. Quartz veins (later than py/qtz above - more macro) begin to appear again at 257.9m. narrow to 261m. Structure. 258·3. Tensional qtz v. c̄ shale clast to 20mm. Vein 35°∠c, 35mm W. dip sim dir to B. 258·4 B @ 46°∠c. 258·6 + 258·82 qVs 38 and 59°∠c.		253·2 B @ 50°∠c. 254·6 B @ 47°∠c. (Bedded dk gy ss unit 50mm wide) 254·75. Breccia. Black sh fragments in qtz-sideritic matrix. 46°∠c 30–35mm wide. Conformal. 255·65–256·6 B @ 0–15°∠c. (folded / slumped) resumes more normal orientation below. 257·2. qtz/py V. 52°∠c 8 mm W. 257·9 tensional white qtz V. 58°∠c 10mm wide. 259·6–259·9. qtz V. 40°∠c. 259·3–260·3. Several shallow ∠c siderite veins. 260·45 – 261. Main fracture 38–40°∠c. (Brecciated fract zone)	pyrite 5%	
261 262 263	261–263·4. Multiple quartz veining.			261–261·22. 220mm W 24°∠c 261·32–261·46 45mm W qtz vein. 261·5–262·0 15mm W qtz (barren at top) at 52°∠c. Lower section c̄ SPHALERITE + GALENA. 9m both qtz and shales below vein over 30cm Sp+Gal 262·8–263·4. qtz V + stockwork c̄ Aspy. Brecciated / stockwork in middle. 47°∠c	Fine gr SPHALERITE to 261·2 (Sn ?)	40% 15% –
264 265 266	263·4 – 266·65. Reticulated network of quartz veins. Brecciated fragments of Black shale in widest veins. (to 10cm wide) Veins in black pyritic shales.	qtz veins (tensional) 2ry qtz crystals in cavities.		main trend to veins 30 to 45°∠c.		
267 268	266·65. see next page.			267·75 – 267·95. silicified, pyritic mixed layer. 55 to 60°∠c. (see over)		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH DDH RBE 39.ext.

LOGGED BY D S Thyne FROM 253 TO 268m. DATE 4 / 8 / 83 PAGE 2 OF 7

DRILL ADVANCE

LITHOLOGY

422078

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	270·2	2·5	2·4	96%
	273·4	3·2	3·2	100%
	276·1	2·7	2·7	100%
	278·0	1·9	1·9	100%
	281·0	3·0	3·0	100%
	284	3·0	3·0	100%

INTERVAL
269 270 271 272 273 274 275 276 277 278 279 280 281 282 283.

SCALE 1:100 (1cm = 1 m)

DESCRIPTION

266·65 – 293·15. Black pyritic Carbonaceous shales. Beds more friable, disturbed than above vein at 261. Intermittent interbedded pale grey, yellowish grey tuffaceous sandstones, siltstones.

Sandstones, siltstones 25% to 278m.

Siltstone / sandstone / mixed beds as follows

267·75 – 267·95. 15cm W unit. Pale yellowish gy silica – qtz – sericite – dissem pyrite layer. Chert like on margins. Partially intermixed shales.

273·4 – 275·4. Intermixed sh & sa.

275·8 – 276·15. Pale creamy gy tuff sa.

276·8 – 277·24. Pale gy sa. underlain by bedded siltstone.

277·55 – 278 mixed sh, sa, sh.

ALTERATION

To 278·5. pyrite occurs as aggregates, wisps, tabular structure rather than distinct conformal or cross cutting veins.

GRAPHIC LOG

STRUCTURE

Disturbed / brecciated / ball and pellet structures. (siltstone and sandstone lenses, clast in shales and in sandstone siltstone & shale clasts etc.

269·1 – 269·30 Fracture. pyrite-quartz veinlets parallel. 10-15°∠c.

272·7. 10mm wide pyritic, tensional fracture zone. 40°∠c.

273·4. Trend of mixed sediments ≈ 23°∠c.

275·8. Contact sh/sa 25°∠c.

276·8 B @ 33°∠c.

278·5 to 284m. Bedding – lineation between 30°–50°∠c.

279·8 B + V 36°∠c.

MINERALISATION

pyrite Some of py concentrated as aggregs on margins of sandstone, siltstone clasts in shale.

261 – 278·5

py veins, veinlets as distinctive features absent.

278·5 pyrite veins in Black shales recommence.

VISUAL PERCENTAGE MINERALISATION

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH RBE 39. cont

LOGGED BY D S Thynne FROM 268 TO 283m. DATE 4 / 8 / 83 PAGE 3 OF 7

<1

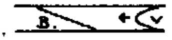
DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
284	3·0	2·9	96%
287	3·0	2·94	98%
290	3·0	3·0	100%
296	3·0	3·0	100%
299	3·0	3·0	100%
302			

LITHOLOGY

422079

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Black pyritic Carbonaceous shales. predominate, as previous page					
284	284-284·3. Brecciated Sandstone fragments in black sh matrix.					
285						
286				286·3 B @. 36°∠C.		
287						
288						
289						
290	290·4-293·15. Fragments - clasts of sandstone common in shale.			290·1 B @ 50°∠C.		
291						
292						
293				293·15. Sharp change in lithology. ↖ Contact 58°∠C. 293·2 B @ 40°∠C.		
294				294 B @ 34°∠C.		
295	<u>293·15 to 312·15m</u>. Pale to medium grey tuffaceous sandstones. GRADES down hole to siltstone tops? Some sandstone and siltstone beds as ungraded units. Graded units mainly between 10 and 50cm wide. ss tops of units to 70mm wide Mainly 25mm wide.	minor fine gr dissem py in siltstones. 295·12 35mm breccia or slumped layer. 60°∠c.		295·4 B @ 40°∠C. Some microfracturing and disruption of bedding. Some brecciation / slumping of beds (intrabedding). IE between Sa and ss fraction of graded beds.		
296						
297				297·45. V. 3mm wide 43°∠c. Siderite/Ankerite. across bedding.		
298				298·25 B @ 42°∠C.		



SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 39 ext.

LOGGED BY D S Thynne FROM 283 TO 298m DATE 5/8/83 PAGE 4 OF 7

422080

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	299	3·0	3·0	100%
	302	3·0	2·91	97%
	305	3·0	3·0	100%
	308	3·0	3·0	100%
	311	3·0	3·0	100%
	314			

LITHOLOGY

INTERVAL / DESCRIPTION

see previous page.

308·2 onwards narrow qtz-carb (sideritic) vein, veinlets.

312·15-314·55 FRACTURE ZONE. NETWORK NARROW QUARTZ-CALCITE VEINS To 313·72m.

313·72-314. QUARTZ/SULPHIDE VEIN.

314-314·55. DRAG FOLDED. SOME TENSIONAL SIDERITIC VEINS.

ALTERATION

GRAPHIC LOG

STRUCTURE

Beds grade downhole. Younging to west here? (see below. and holes adjacent to South) where grading/younging eastword.

301·2 B @ 50°∠c.

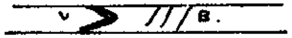
302·25. B @ 58°∠c.

303·4. B @ 54°∠c.

308·2. Microfractures and veins displace beds slightly. Veins mainly across bedding and at shallow angle. EG Below.

310·0 B @ 43°∠c.

310·33-310·52. Calcite + qtz + py Vein. 3mm wide 13-15°∠c. Displaces bedding. Across bedding.



MINERALISATION

313·72-314 45mm wide, (T.W) 17°∠c. VEIN. SPHALERITE/CPY/GAL in upper narrow layer. SP, GAL, PY on lower margin.

VISUAL PERCENTAGE MINERALISATION

Sulphide 35% 313·72 314·0

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE39. ext.

LOGGED BY O S Hyn FROM 298m TO 314·55m DATE 7/4/83. PAGE 5 OF 7.

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	314	3·0	3·0	100%
	317	3·0	2·93	97·6%
	320	3·0	2·94	98%
	323	3·0	2·9	96·6%
	326	3·0	2·94	98%

LITHOLOGY

INTERVAL 314 – 328 (SCALE 1:100 (1cm = 1 m) 328·8.)

DESCRIPTION

see previous page.

314·55 – 335.(E.O.H) Grey tuffaceous Sandstones (sa approx 80%). Some interbedded graded siltstones. Siltstones also as tops to some graded sa units. Variable units as follows.

318·3 - 319·85. Thinly bedded alternating Black shales, siltstones, sandstones.

32535 - 328·8 Sa beds 1mm to 60mm wide. Interbedded bedded siltstones. Individual ss beds 1mm to 10mm wide. Groups to 70mm wide. Bedding planes generally smoother (planular) less disturbed than above.

ALTERATION

Clots of qtz (+ yellowish clay or carbonate)

319·15 qtz v.

327·55 – 327·8. qtz v. Vein sim in nature to that at 313·72 but NO GAL, SP, CPY.

GRAPHIC LOG

STRUCTURE

314·15. Appears to be Fold axis. (Grading uphole below this level.)

315·45 B @ 51°∠c.

319·15. qtz v. 28°∠c. Across bedding.

319·3 B @ 54°∠c.

319·38 qtz v 50mm wide. Conformal.

320·35 B @ 28°∠c.

320·7 B @ 31°∠c.

326·5. B @ 23°∠c.

327·25 B @ 21°∠c.

327·55 – 327·8 q V. 40mm wide TW. 19°∠c. Contains wisps, aggreg of siderite (minor) Appears to be conformal.

MINERALISATION

Few py aggreg, dissem in vein.

VISUAL PERCENTAGE MINERALISATION

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 39 EXT

LOGGED BY O S Hyn FROM 314·55 TO 328 m DATE 7 / 8 / 83 PAGE 6 OF 7

DRILL ADVANCE

LITHOLOGY

422082

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
								328·7. B @ 21°∠C.		
329				329						
				330						
	3·0	3·0	100%							
				331						
								331·3 B @ 24°∠C.		
								331·6 – 333 Bedding shallow angle core FOLDED ?		
332				332						
								332·5. qtz V· 30mm wide 70°∠C.		
				333	333 – 333·4 Black, dk gy carbonaceous siltstone/shale bed.					
								333·45. Contact sa/sL = 28°∠C.		
	3·0	3·0	100 %							
				334						
335				335.						
					E.O.H 335.					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE39 ext

LOGGED BY D S Hynn FROM 328m TO 335m DATE 7/8/83 PAGE 7 OF 7

422083

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
														Short Ground Core		
46.80	BLD	100		30	175	1.0	65		400							
49.20	BLD	80		BLD	165	2.0	19		545							
50.30	BLD	85		5	155	1.5	30		370							
52m	BLD	60		15	200	BLD	61		400							
53.30	BLD	120		10	215	BLD	22		545							
55.20	BLD	195		BLD	180	1.0	5		450							
57m	BLD	140		55	250	1.0	5		430							
58.80	BLD	95		175	595	BLD	29		380							

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 39

ASSAYED BY ANALABS FROM 45 TO 60 DATE 10/10/82 PAGE 1 OF 20

422084

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
60·80	8	130		95	290	1·5	490		340							
64m	BLD	70		10	145	1·0	45		325							
66.60	BLD	50		105	285	0·5	360		1650							
70m	BLD	215		290	650	3·0	1000		210							
73·50	6	120		170	640	2·5	91		125							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY ANALABS FROM 60 TO 75 DATE 10/10/82 PAGE 2 OF 20

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422085

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG							SAMPLE NUMBER
75·10	BLD	105		20	180	BLD	14		135								
76·70	BLD	100		20	190	BLD	14		130								
79m	BLD	95		20	135	1·5	14		125								
81·50	4	100		160	950	1·0	550		105								
83·60	BLD	190		55	375	1·5	1000		190								
84·60	17	80		475	1150	1·5	2500		335								
86·40	BLD	10		30	125	BLD	510		610								
89·40																	

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY ANALABS FROM 75m TO 90m DATE 10/10/82 PAGE 3 OF 20

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	BLD	25		15	65	0.5	32	1600								
91.60	BLD	85		35	295	3.0	1000	220								
94.50	BLD	115		5	180	4.5	82	210								
95.80	BLD	90		35	195	1.5	970	170								
97m	BLD	155		45	390	5.5	260	170								
98.60	BLD	115		5	145	0.5	42	220								
100.30	BLD	735		45	150	0.5	15	300								
103m																

90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY ANALABS FROM 90m TO 105m DATE 10/10/82 PAGE 4 OF 20

422087

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	BLD	70		10	140	0.5	10	340								
107.20	BLD	75		10	145	0.5	7	320								
109.50	BLD	105		20	235	0.5	8	280								
111.70	BLD	65		15	120	2.0	11	150								
114.80	BLD	100		25	145	1.0	7	160								
117.30	BLD	170		40	125	0.5	5	135								
118.30	BLD	110		15	130	3.0	9	115								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY ANALABS FROM 105 TO 120 m DATE 10/10/82 PAGE 5 OF 20

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG.							SAMPLE NUMBER
120.60	BLD	155		25	145	4.5	31	160								
122.20	BLD	110		25	125	0.5	21	90								
124.40	I/S	120		30	115	BLD	8	70								
125.90	BLD	70		25	110	BLD	13	100								
128.90	BLD	30		20	105	0.5	15	75								
132 m	BLD	20		15	110	1.0	15	75								
134.40																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY Analabs FROM 120 TO 135 m DATE 10/10/82 PAGE 6 OF 20

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422089

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni								SAMPLE NUMBER
	BLD	50		BLD	115	2·5	7	60								
137·50	BLD	100		10	125	BLD	6	65								
140·60	BLD	70	180	210	110	1·0	9	70								
143·60	5	95	90	430	670	0·5	43	120								
146·70	25	80	290	390	500	1·0	31	60								
149·20	3	105	160	30	150	BLD	7	145								
150 m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY ANALABS FROM 135 TO 150 m DATE 10 /10/ 82 PAGE 7 OF 80

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422090

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S.G.						SAMPLE NUMBER
150 m	BLD	125		10	90	BLD	6		150					SPLIT	CORE ↓	20342
150.75	BLD	90		45	200	BLD	22		185							20343
151.50	10	20		635	565	BLD	100		230							20344
152.20	30	25		200	290	BLD	120		185							20345
153 m	BLD	165		60	430	BLD	31		130							20346
153.55	BLD	455		35	205	BLD	22		110							20347
154.40	43	30		910	1020	1.0	170		450							20348
154.80	28	1500		740	1150	9.5	2800		3550							20349
155.50	7	10		65	75	BLD	2450		2350							20350
156 m	13	710		1850	2300	11.5	3000		2650							20351
156.50	954	230		185	385	2.5	6600		1800							20352
157.20	136	20		125	125	BLD	2600		1950							20353
157.80	2070	95		175	2150	BLD	1600		690							20354
158.30	131	50		360	775	1.5	1100		820							20355
158.80	293	2850		935	1300	20.0	2100		875							20356
159.20	5	745		395	2650	BLD	1300		865							20357
159.45	10	35		100	200	BLD	1200		1550							20358
159.95	47	10		10	40	BLD	1000		1330							20359
160.65	7	5		BLD	40	BLD	210		1450							20360
161.35	BLD	BLD		15	40	BLD	91		1400							20361
162.05	BLD	10		30	70	BLD	320		1950							20362
162.65	BLD	5		5	60	BLD	6		1950							20363
163.15	BLD	BLD		10	75	BLD	3		2100							20364
163.75	BLD	5		15	75	BLD	9		1600							20365
164.45	BLD	BLD		5	125	BLD	26		425							20366
164.65																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 39

ASSAYED BY Analabs FROM 150 TO 165m DATE 31/8/82 PAGE 8 OF 20

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422091

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	BLD	5		10	155	BLD	9	265								Z0367
165.55	BLD	10		BLD	160	BLD	3	130								Z0368
166.05	BLD	BLD		15	175	BLD	4	165								Z0369
166.55	8	480		60	1750	BLD	33	285					SPLIT	CORE ↑		Z0370
167.20	BLD	55		60	260	BLD	40	180								
168.10	6	55		40	165	0.5	41	110								
170.30	6	110		15	165	0.5	39	55								
173.40	BLD	140		20	180	0.5	9	60								
175.10	BLD	150		65	210	0.5	11	55								
177.40	4	105		15	190	BLD	25	70								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY ANALABS FROM 165 TO 180 m DATE 10/10/82 PAGE 9 OF 20

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422092

180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
180.30	BLD	185		10	105	BLD	20	55								
183.40	BLD	115		5	130	BLD	12	55								
185.30	BLD	55		30	135	BLD	17	110								
187.40	BLD	45		15	140	BLD	17	150								
189.70	BLD	25		10	140	0.5	15	135								
190.90	BLD	55		5	130	2.0	18	65								
194m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY ANALABS FROM 180 TO 195 m DATE 10/10/82 PAGE 10 OF 20

422093

195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210

Metres	Sn	Cu	W	Pb	Zn	Ag	As	Ni								SAMPLE NUMBER
	BLD	35		10	155	0.5	26	75								
197.2	BLD	35		270	565	1.5	19	125								
200.3	11	20		225	705	3.0	25	150								
203.4	BLD	60		60	330	0.5	39	120								
206.4 to 209.4	69 *	160 85		3500 330	1.39%* 600	12.0 *	3900 39	85 150	Split core lower (206.4 – 209.4)				* denotes method 104			22035.
207	3	120		60	190	0.5	33	150							Split Core ↓	Z1529
208	28	95		1650	1750	3.0	55	85								Z1530
209	70	165		1.01%*	2.16%*	20 *	5600	195					* denotes method 104			Z1531
210																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE39

ASSAYED BY ANALABS Pty Ltd, FROM 195 TO 210m DATE 23/8/83 PAGE 11 OF 20

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422094

Metres	Sn	Cu	W	Pb	Zn	Ag	As	Ni								SAMPLE NUMBER
210	3	140		635	1030	1·5	91	565								21532
211	x	80		285	590	1·0	61	335								21533
212	48	90		585	1200	1·5	32	110								21534
213	410	1·16%*		230	305	37*	40	160					* denotes	by method	104	21535
214	65	200		300	510	2·0	82	140								21536
215	8	140		640	1320	1·5	57	130								21537
216	x	70		70	120	1·0	45	130								21538
217	x	130		205	450	1·0	43	195								21539
218	x	115		100	155	x	57	165								21540
219	3	100		60	150	x	60	260								21541
220	x	100		105	160	0·5	370	200								21542
221	3	115		125	165	0·5	62	130								21543
222	14	110		355	595	2·0	89	220								21544
223	33	125		405	695	2·0	2700	230								21545
224	73	160		1075	1400	3·5	140	240								21546
225																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY ANALABS Pty Ltd FROM 210m TO 225m DATE 23/8/83 PAGE 12 OF 20

422095

	metres	Sn	Cu	W	Pb	Zn	Ag	As	Ni								SAMPLE NUMBER
225	225	7	110		200	325	1·0	96	155								21547
226	226	x	100		120	275	1·0	79	150								21548
227	227	4	115		85	235	0·5	62	140								21549
228	228	11	105		530	1200	0·5	115	185								21550
229	229	116	240		1250	5785	6·0	3·15%	210								21551
230	230	34	115		470	1045	4·5	3·95%	225								21552
231	231	13	80		400	450	1·0	530	150								21553
232	232	156	3050		7200 *	1250	98 *	1·0%	165					* denotes by method 104			21554
233	233	296	1250		5800 *	5000*	23 *	210	235					* " " " "			21555
234	234	179	1050		725	1750	6·5	590	240								21556
235	235	75	120		120	470	1·0	110	140								21557
236	236	128	195		365	2075	2·5	102	190								21558
237	237	167	305		260	400	4·0	130	180								21559
238	238	No		SAMPLE	Extension of	Hole	No	CORE			No		SAMPLE	Extension of	Hole.	No	Core.
239	239	607	610		255	150	6·0	60	170								21560
240	240																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY ANALABS Pty Ltd FROM 225m TO 240m DATE 23/8/83 PAGE 13 OF 90

422096

metres	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SAMPLE NUMBER
240	163	180		580	1350	3·5	104	145	Z1561
241	61	125		1075	1800	2·0	96	135	Z1562
242	54	90		1100	1950	1·5	31	95	Z1563
243	65	100		600	680	1·0	21	110	Z1564
244	33	105		905	1850	1·5	32	115	Z1565
245	10	95		380	430	1·0	22	110	Z1566
246	21	120		1400	2425	2·0	29	125	Z1567
247	22	95		370	250	1·0	76	120	Z1568
248	45	110		755	345	3·0	85	120	Z1569
249	32	115		905	3050	2·0	41	155	Z1570
250	6	110		245	195	1·0	76	130	Z1571
251	19	100		890	940	2·0	46	130	Z1572
252	x	95		115	215	0·5	50	125	Z1573
253	x	100		70	115	1·0	53	120	Z1574
254	50	70		170	1650	1·0	81	135	Z1575
255									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE39

ASSAYED BY ANALABS Pty Ltd FROM 240 TO 255m DATE 23/8/83 PAGE 14 OF 20

422097

metres	Sn	Cu	W	Pb	Zn	Ag	As	Ni								SAMPLE NUMBER
255	7	110		140	420	1·0	61	140								Z1576
256	x	95		80	145	1·5	23	145								Z1577
257	6	115		180	355	0·5	62	135								Z1578
258	34	115		1350	2600	3·0	600	145								Z1579
259	36	120		1450	4050	2·0	270	200								Z1580
260	74	180		2200	9400	7·0	1000	145								Z1581
261	218	590		2·27%*	3·63%*	68 *	2700	285					* denotes	method	104	Z1582
262	14	90		6300 *	2150	26 *	1400	165					* "	"	"	Z1583
263	44	105		1500	5100	5·0	600	220								Z1584
264	34	105		370	920	1·5	150	190								Z1585
265	12	55		160	325	1·0	78	215								Z1586
266	4	55		25	125	x	710	260								Z1587
267	x	75		15	185	0·5	113	215								Z1588
268	6	100		45	245	0·5	190	165								Z1589
269	8	125		395	870	1·0	540	170								Z1590
270																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE39

ASSAYED BY ANALABS Pty Ltd FROM 255m TO 270m DATE 23/8/83 PAGE 15 OF 20

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422098

	Sn	Cu	W	Pb	Zn	Ag	As	Ni								SAMPLE NUMBER
270	x	115		15	85	x	59	145								21591
271	x	90		5	90	x	41	110								21592
272	x	90		5	100	x	32	140								21593
273	x	65		x	175	x	49	160								21594
274	x	55		x	185	0.5	59	200								21595
275	x	95		x	100	x	25	180							Spld Core ↑	21596
276	x	100		20	185	x	30	110							Ground Core ↓	
279	x	160		35	170	x	8	95								
282	x	90		x	125	x	16	100								
285																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE39

ASSAYED BY ANALABS Pty Ltd FROM 270m TO 285m. DATE 23/8/83 PAGE 16 OF 20

422099

	Sn	Cu	W	Pb	Zn	Ag	As	Ni								SAMPLE NUMBER
285	x	110		20	155	x	8	95								
288	3	80		15	195	x	5	95								
291	x	85		x	165	x	20	115								
294	4	95		5	180	x	2	115								
297	x	85		5	155	x	4	125								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE39

ASSAYED BY ANALABS Pty Ltd FROM 285m TO 300m DATE 23/8/83 PAGE 17 OF 20

422100

	Sn	Cu	W	Pb	Zn	Ag	As	Ni								SAMPLE NUMBER
300	x	105		5	175	x	2	115								
303	x	85		5	160	x	2	125								
306	x	80		10	185	x	7	125								
309	x	80		20	170	x	16	125							Ground C ↑	
312	14	65		710	2150	0.5	57	125							Split Core ↓	21597
313	87	2000		1.42%*	1.55%*	49 *	230	160								21598
314	7	70		110	345	x	24	135							Split Core ↑	21599
315															GROUND C ↓	

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE39

ASSAYED BY ANALABS Pty Ltd FROM 300 TO 315m DATE 23/8/83 PAGE 18 OF 20

422101

metres	Sn	Cu	W	Pb	Zn	Ag	As	Ni							SAMPLE NUMBER
315	5	70		45	300	x	23	130							
318	18	100		30	235	0.5	38	135							
321	3	80		5	185	x	20	135							
324	x	75		5	160	x	6	140							
327	x	85		10	200	x	19	135							
330															

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY ANALABS Pty Ltd FROM 315m TO 330m DATE 23/8/83 PAGE 19 OF 20

	metres	Sn	Cu	W	Pb	Zn	Ag	As	Ni								SAMPLE NUMBER
330 331 332	320	x	70		5	190	x	16	130								
333 334	333	x	50		5	190	x	18	140						Ground	Core ↑	
335	335	E.O.H															

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY ANALABS Pty Ltd FROM 330m TO 335m DATE 23/8/83 PAGE 20 OF 20

422103

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	BLD	35		10	155	0·5	26	75								
197·20	BLD	35		270	565	1·5	19	125								
200·30	11	20		225	705	3·0	25	150								
203·40	BLD	60		60	330	0·5	39	120								
206·40	69	160		3500	1·39%*	12·0	3900	85						* denotes	method 104	
209·40																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY ANALABS FROM 195 TO 210 DATE 10/10/82 PAGE 10 A OF

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422104

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	BLD	100		615	910	1·5	140	340								
212·50	103	3800		480	955	10·5	85	75								
215·60	BLD	90		145	235	2·0	55	75								
218·60	BLD	115		85	220	1·0	66	85								
221·70	32	115		435	610	1·5	240	70								
224·80																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 39

ASSAYED BY ANALABS FROM 210 TO 2[illegible] DATE 10/10/82 PAGE 11A OF ......

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422105

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG.							SAMPLE NUMBER
	7	115		165	390	7.5	74.	80.								
227.90	41	175		635.	1850	5.0	3.40%	100								
231m	71	1300		3250	1000	42 *	2800.	90					* denotes method 104.			
234.10	238	290		700	1400	10.0	170.	125								
236.10	180	265		260	930	11.5	130.	155								
238m	Hole Continued															

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COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 39

ASSAYED BY ANALABS FROM 225 TO 240 DATE 10/10/82 PAGE 12 A OF

422106

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	BLD	35		10	155	0.5	26	75								
197.20	BLD	35		270	565	1.5	19	125								
200.30	11	20		225	705	3.0	25	150								
203.40	BLD	60		60	330	0.5	39	120								
206.40	69	160		3500	1.39%*	12.0	3900	85						* denote	method 104	
209.40																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 39

ASSAYED BY Analabs FROM 195 TO 210 DATE 10/10/82 PAGE 10 A OF

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	BLD	100		615	910	1·5	140	340								
212·50	103	3800		480	955	10·5	85	75								
215·60	BLD	90		145	235	2·0	55·	75								
218·60	BLD	115		85	220	1·0	66·	85								
221·70	32	115		435	610	1·5	240	70								
224·80																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 39

ASSAYED BY ANALABS FROM 210 TO 225 DATE 10/10/82 PAGE 11A OF

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422108

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	7	115		165	390	7·5	74	80								
227.90	41	175		635	1850	5·0	3·40%	100								
231m	71	1300		3250	1000	42 *	2800	90					* denotes method 104.			
234.10	238	290		700	1400	10·0	170	125								
236.10	180	265		260	930	11·5	130	155								
238m	Hole continued															

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 39

ASSAYED BY ANALABS FROM 225 TO 240 DATE 10 /10/ 82 PAGE 12A OF

DRILLHOLE LOG

R.B.E. 40

RBE 40

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422110

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	0-36·10	36·10	Nil	Nil %
	36·10	0·90	0·35	38·9%
	37·00	1·20	0·40	33·3%
	38·20	0·80	0·75	93·75%
	39·00	4·20	3·80	90·47%
	43·20	1·40	1·40	100%
	44·60	3·10	3·65	98·39%
	47·70	1·50	1·50	100%
	49·20	1·70	1·10	64%

LITHOLOGY

INTERVAL: 36·0, 37·0, 38·0, 39·0, 40·0, 41·0, 42·0, 43·0, 44·0, 45·0, 46·0, 47·0, 48·0, 49·0, 50·0

DESCRIPTION

0–35·80 TRICONED.

35·80 – 38·20 v broken, weathered grey to brownish grey in part banded/laminate tuffaceous sandstone, siltstone. White quartz vein stockwork (extensive btw 35·80 – 36·10 and 37·0 - 38·0) Minor oxidation along fractures in veins.

38·20 – 47·70

Greengrey, fine-medium grained massive, competent & banded/laminated tuffaceous sandstone, c̄ intercalated black shale partings often exhibiting slumped deformational features. Chlorite? Small, randomly orientated quartz-carbonate veinlets cross cut banding.

47·20 – 48·20 Gabbroic dyke? yellowish green c̄ coarse mottled texture. Dark grey carbonaceous shale and tuffaceous siltstone partings commonly with deformed texture.

48·20 – 55·20. Mixed grey & dark grey shale and siltstone with banded grey TSa, SS. Fine convoluted banding (commonly deformed c̄ brecciated) Intensive qtz carb veining. Finely bedded c̄ bl shale and sltstn.

ALTERATION

25-30% quartz vein and veinlet stockwork

→ does have banded appearance.

15-20% disrupted qtz carb (calcite?) veining + fracture filling

GRAPHIC LOG

STRUCTURE

(35·90) β + V CIA – 37°
(36·15) V CIA – 67°

(Laminate fine banding commonly deformed.)

(41·4) β. CIA - 38°
(42 0) β. CIA - 32°
42 40 β CIA - 44°
(42·90) β CIA, -33°
(43·60) V CIA – 36°
(45 5) β. CIA - 40°
(46·55) β CIA – 52°
(47·40) V CIA - 44° Qtz Siderite Vn.
(47·80) β? CIA. – 44°

MINERALISATION

(36·15) - Minor py in oxidised veinlet.

VISUAL PERCENTAGE MINERALISATION

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 40

LOGGED BY .... FROM .... TO .... DATE ..../..../.... PAGE ...... OF ......

422111

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	50·90	1·40	1·20	85·7%
	52·30	1·80	1·70	94·4%
	54·10	3·0	2·95	98·3%
	57·10	140	1·20	85·7%
	58·50	1·30	1·30	100%
	59·60	2·90	2·80	96·5%
	62·70	3·10	2·50	96·15%

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
51·0						
52·0				(51·80) β CIA - 47° (52·20) β CIA - 40° (52·40) (deformed) β CIA ? - 31°		
53·0				(53·5) β. CIA - 36°		
54·0						
55·0	55·20 - 56·45 Gabbroic Dyke. (pending identification by CMS) Mottled, course texture, greenish grey c̄ fine grained black shale or altered Mg filaments.			GD 40-50° (55-60)		
56·0	56·45 - 57·96. Pale - dark grey, fine grained, fine to medium banded and texturally deformed CALC PELITE.			(56·5) β CIA - 37°		
57·0						
58·0	57·96 - 61·35. Pale to dark grey mixed shale/ss c̄ some grey Tsa. Disrupted qtz carbonate veining and disrupted fine bedding	15-20% qtz carb veinlets.		(58·0) β. CIA - 46°		
59·0						
60·0						
61·0	61·35 - 61·95. Gabbroic dyke ? Yellowish green course Tuffaceous sandstone or Gabbroic dyke. Sharp contact c̄ dark grey carbonaceous shale and tuffaceous grey sandstone, 61·95m.			61 50 β CIA - GD - 25-30° (61·50)		
62·0						
63·0	61·95 - 68·10 - Pale and dark grey mixed shale, ss c̄ minor Tsa. V grained and finely bedded but largely disrupted. Intensive calcite veining disrupted. Calc Pelite ?					
64·0		Calcite veining 20-25%				
65·0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 40

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422112

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	65·30	3·10	3·10	100%
	68·40	3·10	3·00	96·7%
	71·50	1·40	1·40	100%
	72·90	1·20	1·20	100%
	74·10	2·40	2·00	83·3%
	76·50	1·60	1·50	93·75%
	78·10	1·56	1·50	100%
	79·60	1·70	1·30	76·47%

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL | DESCRIPTION | ALTERATION | GRAPHIC LOG | STRUCTURE | MINERALISATION | VISUAL PERCENTAGE MINERALISATION

66·0 67·0 68·0 69·0 70·0 71·0 72·0 73·0 74·0 75·0 76·0 77·0 78·0 79·0 80·0

68·10 — 73·95.

Massive greenish grey medium to fine grained tuffaceous sandstone with interbedded tuffaceous siltstone horizons and intercalated carbonaceous shale partings - predominantly exhibiting banding but c̄ sequences of slumped deformational-brecciated textures. Randomly orientated, cross cutting quartz-carbonate veining.

73·95 —

Mixed pale to dark grey-black carbonaceous shale with medium to fine grained tuffaceous sandstone and siltstone horizons. Good banding scarce - predominantly slumped deformational/brecciated textures

(72·5) B.CIA - 38°

(73·5) B.CIA - 36°

(73·90) B 0°.

80·0 B.CIA - 44°

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 40

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LITHOLOGY

422113

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	81·30	1·30	1·30	100%
	82·60	2·30	2·30	100%
	84·90	2·0	1·95	97·5%
	86·90	1·60	1·50	93·75%
	88·50	0·80	0·80	100%
	89·30	2·20	2·10	95·45%
	91·50	1·70	1·50	88·23%
	93·26	2·90	2·80	100%

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
81·0						
82·0				82·0 B. CIA - 32° CONTACT.		
83·0	82·50 - 83·80 Gabbroic dyke or coarse tufaceous ss. v little sedimentary features evident - has a granular texture, mottled greenish grey in colour c̄ minor dark grey black shale (Mg?) fibrioils.			83·0 B. CIA - 43° CONTACT.		
84·0	83·80 - 107·20. Alternating sequence of greenish grey, massive medium to fine grained tufaceous sandstone with intercalated bands of Tsa/ss/sh. Fine banding and some graded bedding evident but slumped deformational/brecciated features are common. 70% Tsa ; 30% ss/sh.					
85·0						
86·0						
87·0						
88·0						
89·0						
90·0						
91·0						
92·0						
93·0						
94·0						
95·0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 40

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422114

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	96·00	2·50	2·45	98%
	98·50	3·10	3·10	100%
	101·60	2·40	2·40	100%
	104·00	3·10	3·05	98·38%
	107·10	2·60	2·55	98·07%
	109·70	3·10	3·05	98·38%

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL | DESCRIPTION | ALTERATION | GRAPHIC LOG | STRUCTURE | MINERALISATION | VISUAL PERCENTAGE MINERALISATION

96·0
97·0
98·0
99·0
100·0
101·0
102·0
103·0
104·0
105·0
106·0
107·0
108·0
109·0
110·0

DESCRIPTION

107·20 – 107·60 Grey to black Fine grained carbonaceous shale + tuffaceous siltstone c̄ 3-5 % qtz carb veining.

107·60 – 108·0 Contact zone – mixed black shale and siltstone with granular textured gabbroic dyke. 3-5%

108·0 – 110·35. Grey green Gabbroic dyke? Course granular texture c̄ 2-3% qtz carb veining and minor 3-5% black shale filaments.

STRUCTURE

(102·50) B CIA – 30°
(103 0) B CIA – 0°
(104·0) B – CIA, 30°
(106·0) B CIA – 0°
107·20 CONTACT 58°
107·60 " 22°
108·0 " 31° GD.
110·35 CONTACT 55° GD.

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 40

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422115

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	112·80	0·40	0·25	62·5%
	113·20	2·60	2·65	101·92%
	115·80	3·10	3·05	98·38%
	118·90	3·10	3·10	100%
	122·0	3·10	3·05	98·38%

LITHOLOGY

INTERVAL: 111·0, 112·0, 113·0, 114·0, 115·0, 116·0, 117·0, 118·0, 119·0, 120·0, 121·0, 122·0, 123·0, 124·0, 125·0

DESCRIPTION

Gabbroic dyke?

110·35 — 128·30.

Greenish grey medium to fine grained massive tuffoceous sandstone (70-80%) c̄ interbedded irregular and commonly deformed horizons of tuffoceous siltstone and carbonaceous black shale.

- Minor & irregular cross cutting qtz-carbonate veining 2-3%. to 124 m when appear to loose the carbonate, The quartz veins tend to be random and discontinuous.

NB. where shale horizons are more finely banded and/or deformed - veining comprises 5-10%

ALTERATION

GRAPHIC LOG

STRUCTURE

114·90 B. CIA - 53°

115·7 B. CIA - 49°

119·0 B. CIA - 30°

119·5 B. CIA - 34°

122·0 B. CIA - 35°

123·2 B. CIA - 44°

123·5 B. CIA - 46°

124·2 ss/sh contact - 54°

124·5 B CIA (break) 25°

MINERALISATION

VISUAL PERCENTAGE MINERALISATION

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 40

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422116

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	128·20	2·70	2·75	101·85%
	130·90	3·16	3·05	98·38%
	134·0	3·10	3·10	100%
	137·10	3·16	3·00	96·77%

INTERVAL: 126·0, 127·0, 128·0, 129·0, 130·0, 131·0, 132·0, 133·0, 134·0, 135·0, 136·0, 137·0, 138·0, 139·0, 140·0

DESCRIPTION

128·30 — 130·20 Finely band pinkish brown competent horizons with extensive microfracturing on compressed limbs; together with green grey more plastic bands and dark grey carbonaceous shale filaments.

130·20 — 130·80 dark grey fine grained predominantly carb shale and tuffaceous siltstone horizon. c̄ minor pinkish br competent bands. 1-2% qtz veining.

130·80 — 131·20 Competent fine grained green bands interbedded with black carbonaceous shale.

131·20 — 143·95.
10cm bleached weathered zone of pale quartz rich serpentinite. Grades into dark green quartz veined serpentinite.
— quartz veining is quite regular 5-12% and appears to be orientated in same direction. 40-60°.

ALTERATION

SERPENTINITE

GRAPHIC LOG

STRUCTURE

125·5 B. CIA - 47°
127·5 sh B CIA - 51°
128·3 CONTACT CIA - 44°
128·5 B. CIA - 59°
10cm black shale band.
130·0 B. CIA - 50°
130·20 Contact 35°
130·80 contact 62°
131·0 B. CIA - 49°
132·0 Qtz V^n - 55°
132·5 Qtz V^n - 55°
134·0 Qtz V^n - 57°
135·0 Qtz V^n - 52°
137·0 Qtz V^n 36°
139·0 Qtz V^n 52°

MINERALISATION

VISUAL PERCENTAGE MINERALISATION

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH 40

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LITHOLOGY

422117

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	140·20	3·00	3·10	103·33%
	143·20	3·10	3·05	98 38%
	146·30	2·90	2·86	96·55%
	149·20	3·10	3·05	98·38%
	152·30	3·00	306	100%

INTERVAL: 141·0, 142·0, 143·0, 144·0, 145·0, 146·0, 147·0, 148·0, 149·0, 150·0, 151·0, 152·0, 153·0, 154·0, 155·0

DESCRIPTION

143·0 – 143·95. Bleached zone, weathered honeycomb texture c̄ competent intensive qtz veining remaining in tact.

– thick qtz vein 10cm. btw 143 55 – 143·65

Still in serpentinite – but has become apple green in colour. Qtz veining continues 5-10% but now with distinct veins of magnetite 5-8%.

ALTERATION

SERPENTINITE.

GRAPHIC LOG

STRUCTURE

141·0 Qtz V^n – 37°

143·0 Qtz V^n – 44°

144·0 Qtz V^n – 52°

149·0 Qtz V^n (10cm) – 52°

151·5 Qtz V^n – 35°

MINERALISATION

VISUAL PERCENTAGE MINERALISATION

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH 40

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DRILL ADVANCE

LITHOLOGY

422118

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	155.30	3.10	2.80	90-32%							
					156.0						
					157.0						
					158.0						
	158.40	3.10	3.10	100%							
					159.0						
					160.0				160.0 Qtz V^ - 38°		
					161.0						
	161.50	1.50	1.50	100%			SERPENTINITE.				
					162.0						
					163.0				163.0 Qtz V^-37°		
	163.0	2.90	2.95	101.72%							
					164.0				164.0 Qtz V^-32°		
					165.0				165.0 Qtz V^ - 50°		
	165.90	3.10	3.00	96.77%	166.0				166.0 Qtz V^ - 50°		
					167.0				167.0 Qtz V^ 48°		
					168.0				168.0 Qtz veins - 63° - 43°		
					169.0						
	169.0	3.00	2.95	98.33%							
					170.0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 40

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DRILL ADVANCE

LITHOLOGY

422119

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	172·00	2·50	2·40	96%
	174·50	1·50	1·70	113·33%
	176·0	3·10	2·70	80·96%
	179·10	2·20	2·05	93·18%
	181·36	2·30	2·15	93·47%
	183·60	3·10	3·10	100%

SCALE 1:100 (1cm = 1 m)

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
171·0						
172·0						
173·0						
174·0						
175·0				175·0 Qtz V^ - 39°		
176·0						
177·0		SERPENTINITE		177·0 Qtz V^ - 50°		
178·0				178·0 Qtz V^ - 55°		
179·0						
180·0	Serpentinite – v mottled appearance – light bright apple green c̄ dark grey magnetite rich patches and qtz veining.			180·5 Qtz V^ - 59°		
181·0						
182·0				182·5 Qtz V^ - 50		
183·0						
184·0				184·0 Qtz V^ - 52°		
185·0						

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 40

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LITHOLOGY

422120

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	186·70	2·90	2·90	100%
	189·60	2·80	2·80	100%
	192·40	0·80	0·80	100%
	193·20	1·30	1·30	100%
	194·50	2·40	2·25	93·75%
	197·10	3·10	3·00	96·77%

SCALE 1:100 (1cm = 1 m)

INTERVAL

186·0, 187·0, 188·0, 189·0, 190·0, 191·0, 192·0, 193·0, 194·0, 195·0, 196·0, 197·0, 198·0, 199·0, 200·0

DESCRIPTION

very extensive quartz and magnette veining in apple green serpentinite.
20-25% Qtz veining
10-15% Magnetite.

190·0 - 190·90 serpentinite becomes very bleached to pale green. Still with qtz and Mg veining. 3-5%.

190·96 - 201·30. TIN VEIN ?

Bleached, cream green and brick red/brown replaced zone.

196·30 - 196·70 very weathered soft green grey sludge c̄ honeycomb texture of more resistant Qtz veins.

196·70 - 201·30
Very bleached pale grey - white very competent silicified unit. Relic bedding visible c̄ fine black shale? filaments through coarser textured tuffaceous sandstone and siltstone (originally ?) Original banding commonly brecciated and deformed. Qtz veining.

ALTERATION

SERPENTINITE.

TIN VEIN.

GRAPHIC LOG

STRUCTURE

- 186·0 Qtz V^n - 47°
- Qtz veining 80 - Vert.
- Qtz Veining - near Vertical + irregular.
- 190·75 Qtz, mag v^n 48° - rt ∠ to B.
- 190·9 Contact - 42° + Qtz Vn.
- 191·5 C/A - contact - 48°
- 192·0 Qtz V^n follows bd - 50°
- 192·5 B C/A, also Qtz V - 49°
- 193·5 B. C/A - 49°
- 193·8 Qtz V - 39°
- 194·0 B. C/A - mag. band - 48°
- 195·0 B. C/A - 60°
- 198·5 B. C/A - 56°
- 200·0 ss/sh B C/A - 57°

MINERALISATION

VISUAL PERCENTAGE MINERALISATION

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH 40

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	200·20	1·70	1·60	94·11%
	201·90	2·70	2·80	103·70%
	204·60	100	1·00	100%
	205·60	3·10	3·00	96·77%
	208·70	3·10	3·10	100%
	211·50	3·10	3·00	96·77%
	214·90	3·10	3605	98·38%

LITHOLOGY

INTERVAL

201·0 202·0 203·0 204·0 205·0 206·0 207·0 208·0 209·0 210·0 211·0 212·0 213·0 214·0 215·0

DESCRIPTION

201·30 – 201·55 – weathered green grey tuffoceous sandstone siltstone c̄ shale. Sludge.

201·55 – 201·58. MINERALISED BAND.

201·60 – 201·85 Very weathered green grey soft tuffaceous sandstone, siltstone with fine bands of dark grey shale.

201·85 – 207·90

Predominantly green grey banded tuffaceous sandstone and light greenish grey siltstone c̄ minor black shale units.

205·60 – increasingly green colouration

206·10 – 207·0 – slumped brecciated appearance of sandstone, siltstone + black shale

207·0 – 207·90 – Greenish grey + grey medium grained tuffaceous sandstone, siltstone c̄ minor veining of qtz + dull fawn ye alteration cut across bedding.

207·90 – 211·20 Deformed contact, Greyish green finely banded, laminate Tsa, SS with black shale partings. (Insipiently bleached) Intensive small kink folding and micro-fractures.

- Shale band (10cm) at 209·70.
- Separates easily along bands, quite soft weathered zones in part.

211·20 – 216·50 Similar to above – yellowish green, finely banded fine grained Tsa/siltstone c̄ shale partings. Appears to be quite weathered – insipiently bleached.

ALTERATION

×

CALC PELITE ?

STRUCTURE

200·50 B. CIA – 55°
201·0 B. CIA – 54°
201·5 Mineralised band – 49°
202·0 B. CIA ss/sh – 55°
202·5 – B. CIA – 54°; V^–27°
203·5 – B. CIA – 56°
204·0 – B. CIA – 57°
204·5 B. CIA – 50°
205·0 B. CIA – 56°
206·0 B. CIA – 59°
207·0 Foliation 60° Qtz V^ rt ∠
208·0 B. CIA – 80° [Minor deformation and kinking of bands.]
209·0 B. CIA – 65°
210·0 B. CIA – 50°
210·5 B. CIA – 71° [kinked bands]
211·0 B. CIA – 52°
214·0 B. CIA 64° kink banding

MINERALISATION

3cm – py, ccp, po? minor pspy + scarce sphalerite – qtz.

VISUAL PERCENTAGE MINERALISATION

50%

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 40

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DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
218.0	3.60	3.10	103.33%
221.6	3.10	2.80	90.32%
224.16	0.80	0.70	87.5%
224.90	3.10	3.10	100%
228.0	3.10	3.10	100%

LITHOLOGY

422122

INTERVAL	DESCRIPTION	ALTERATION	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
216.0			216.0 B.CIA 61.		
	216.50 - 222.65. More bleached appearanced above unit. Greenish grey fine grained siltstone with altered fawn ye veins + minor qtz Breaks easily, deformed textures common but good banding where visible. - Floggy. Medium → fine grained tuffaceous sandstone bands gradually become more common down hole.	Clay alteration?			
217.0			217.0 B.CIA - 40°		
218.0					
219.0			219.0 B CIA - 35° + 40° 219.5 B.CIA - 58°		
220.0					
221.0			221.0 ss/sh B.CIA - 55°	Minor disseminated py.	
222.0					
223.0					
224.0	223.80 - 224.40 white sheeted Qtz Veining. 224.40 - 224.90 Pale grey tso/ss ē filaments and bands of black shale. 224.90 - 225.40. Massive tuffaceous sandstone. V weathered.				
225.0	225.40 - 247.80 [Qtz Vein ē py at contact] Pale grey to dark grey tuffaceous sandstone and siltstone with filaments and seams of black shale up to 10cm thick. NB. Where shale occurs extensively there appears to be an associated increase in Qtz veining ē fawn ye alteration.	Clay?	225.0 B.CIA - 37°	225.3 - 1cm vein ē py min?	50%
226.0			226.0 ss/sh B.CIA - 51°		
227.0			227.0 B.CIA - 40°		
228.0					
229.0					
230.0					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 40

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DRILL ADVANCE

LITHOLOGY

422123

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	231·10	3·10	3·10	100%
	234·20	3·10	3·10	100%
	237·30	3·10	3·20	103·22%
	240·40	2·50	2·44	97·6%
		ORE ZONE ←		
	242·90	1·40	1·40	100%
	244·30	2·70	2·50	92·59%

INTERVAL	DESCRIPTION	ALTERATION	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
231·0	– bands of shale and tuffaceous sandstone become very deformed with core intersection angles near vertical		231·0 break ss/deformed sh. – 45°		
232·0			232·0 sh, Qtz V^n 30°.		
233·0					
234·0					
235·0	235·0 – 239·0 Similar to previous – Fine to medium grained tuffaceous sandstone c̄ interbedded and commonly deformed siltstone and black shale horizons c̄ 5-10% quartz veining and associated fawn yellow clay? alteration.			– approx 1% py.	
236·0					
237·0	– From 235·0 get pyrite mineralion associated with these quartz veins.				
238·0			238·0 py B in sh; CIA – 45°		
			– Thick QV 26° + 25°		
239·0	239·0 – 240·0 Deformed brecciated tuffaceous sandstone and black shale. 3-4% QV c̄ clay alteration		239·0 B. CIA – 63°.	2-3% py in Qtz-clay veins where black shale filaments occur.	
240·0	240·0 – 241·80 Predominantly massive grey tuffaceous sandstone c̄ minor black shale. – 240·60 3cm band sh, qtz + ss.		240·60 B.CIA. 56°	1% disseminated galena, sphalerite 240·60 3cm band 3-5% py.	
241·0					
242·0	241·80 – 243·80 Massive qtz sulphide vein. 241·85 – 242·2		U.V.C. 241·80 6cm qtz V. CIA contact 30° + 41°	5cm QV at contact, 2-3% py, <1% sph, galena, aspy.	
				242·15 patches qtz, py, ccp, aspy	50%
			242·47 Qtz V – 57°	242·47 qtz, predly aspy c̄ py, ccp. 40-	50%
			242·69 Qtz V – 55°	242·69. patches py, ccp, minor asp.	50%
			242·95 Qtz V – 55°		
243·0			243·05 Qtz V – 52°	243·00 Mixed Aspy c̄ py ccp, sph minor galena, po?	40%
			243·50 V – 59°	243·25 Clay alt^n c̄ 15% sph, 5% ccp, py,	aspy
244·0	243·80 – 245·85 Black shale c̄ tuffaceous sandstone + siltstone. Clay alteration in quartz veins (5-10% veining c̄ py mineralisation associated.)		L.V.C. 243·80 V contact CIA – 53°.	243·40 ccy, py, aspy – 50%	
				243·50 predly ccp c̄ py, aspy. – 20-	25%
				243·75 ccp, py, aspy, po?	50%
245·0					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH 40

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	247.00	3.00	3.15	105%
	250.0	3.00	2.90	96.66%
	253.0	2.50	2.45	98%
	255.50	3.16	3.16	100%
	258.60	3.10	3.10	100%

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

422124

INTERVAL

246.0
247.0
248.0
249.0
250.0
251.0
252.0
253.0
254.0
255.0
256.0
257.0
258.0
259.0
260.0

DESCRIPTION

245.85 – 246.25. Massive light grey medium grained tuffaceous sandstone unit through the dominantly black shale rock. Fine black shale filaments, c̄ minor disseminated py occurring predominantly along small qtz + clay altered veinlets.

246.25 – 268.60 (EOH)

Pyritic black carbonaceous shale.
- massive dark grey - black with minor tuffaceous sandstone, siltstone intervals. Commonly exhibiting fine banding with disseminated pyrite mineralisation occurring parallel to bedding angle and as clusters in quartz and partially (clay?) altered quartz veins.

"

ALTERATION

GRAPHIC LOG

STRUCTURE

245.5 py vⁿ – 41°
246.25 CONTACT ss/sh 66° + 35°
248.5 B. CIA 50°
250.0 B. CIA - 53°
253.0 B CIA - 38
254.0 B. CIA - 34°.

MINERALISATION

5-8% py.

VISUAL PERCENTAGE MINERALISATION

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH 40

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DRILL ADVANCE | **LITHOLOGY**

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
									260.5 B. CIA - 44°		
					261.0						
	261.70	1.90	1.60	84.21%	262.0						
					263.0	Massive competent graphitic shale and siltstone.			263.0 py sh B. CIA - 45°		
	263.60	2.90	3.00	103.44%	264.0					5-8% py.	
					265.0				265.0 B. CIA - 45°		
					266.0						
					267.0				267.0 B. CIA - 47°		
	267.50	1.10	1.05	95.45%	268.0						
	268.60 = EOH.										

Total drilled 268.60
Nil Core - 35.90
232.70 m.

Actual core Recovered = 224.39 m.

% Recovery = 96.43%

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 40

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S.G						SAMPLE NUMBER
187.87	4	10		130	110	BLD	22		1500							20371
188.37	23	5		305	175	BLD	9		1650							20372
189.17	BLD	5		930	65	BLD	27		1600							20373
189.80	BLD	5		365	70	0.5	22		1600							20374
190.05	BLD	5		100	110	BLD	17		1850							20375
190.50	BLD	5		20	255	BLD	7		2400							20376
190.90	BLD	5		15	455	BLD	19		2000							20377
191.35	BLD	5		30	160	BLD	4		2100							20378
191.60	BLD	5		20	110	BLD	22		2700							20379
192.10	BLD	5		5	105	BLD	16		1800							20380
192.60	BLD	5		BLD	100	0.5	9		1550							20381
193.10	BLD	5		BLD	85	BLD	BLD		1800							20382
193.60	16	5		BLD	105	BLD	22		2200							20383
194.10	BLD	5		5	90	BLD	22		1950							20384
194.60	BLD	5		BLD	115	BLD	9		1800							20385

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 40

ASSAYED BY ANALABS FROM 180 m TO 195 m DATE 17/8/82 PAGE 1 OF 3

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S. G.						SAMPLE NUMBER
195.10	BLD	5		BLD	95	BLD	11		1550							20386
195.60	BLD	5		BLD	75	BLD	34		1900							20387
196.10	BLD	5		BLD	140	BLD	9		2800							20388
196.60	BLD	5		5	100	BLD	210		1550							20389
197.10	112	5		BLD	70	0.5	360		1650							20390
197.60	BLD	BLD		BLD	60	BLD	230		1200							20391
198.10	4	15		85	415	BLD	780		1700							20392
198.60	BLD	BLD		BLD	50	BLD	350		1500							20393
199.10	BLD	5		BLD	55	BLD	530		1450							20394
199.60	BLD	5		BLD	45	BLD	1150		1550							20395
200.10	7	5		10	85	1.0	3900		3350							20396
200.60	28	10		5	80	0.5	1800		2460							20397
201.30	115	7300*		2575*	7000*	24*	3400		2200		* denotes by		method	104.		20398
201.90	BLD	85		20	165	0.5	1300		690							20399
204 40																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 40

ASSAYED BY ANALABS FROM 195 m TO 210 m DATE 17/8/82 PAGE 2 OF 3

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S.G.						SAMPLE NUMBER
240.75	150	270		2400	3900	11.5	1500		185							Z0400
241.25	190	245		650	1650	5.0	165		175							Z0953
241.75	531	2.92%*		2650*	6200*	120 *	11.0%		225			*	denotes by	method	104	Z0930
242.25	121	1.11%*		3775*	3.28%*	57 *	4.1%		360			*	" "	"	"	Z0931
242.65	342	1.64%*		3400*	2.91%*	91 *	8.3%		315			*	" "	"	"	Z0932
243.00	101	4.19%*		1700*	6.72%*	132 *	3700		110			*	" "	"	"	Z0933
243.30	399	3.07%*		1860*	8500*	123 *	12.0%		220			*	" "	"	"	Z0934
243.70	85	400		2100*	5400*	6 *	2.0%		260			*	" "	"	"	Z0935
244.00	59	90		1150	3550	2.0	170		130							Z2036
245	27	75		330	2250	x	260		175							Z2037
246	12	60		315	880	x	83		145							Z2038.
247																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 40

ASSAYED BY Analabs FROM 240 TO 255 DATE 17 / 8 / 82 PAGE 3 OF 3

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DRILLHOLE LOGS

R.B.E. 41

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COMSTAFF PROPRIETARY LIMITED

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DRILLHOLE LOG

SUMMARY SHEET

PROJECT AREA DRILLHOLE TYPE DDH NO RBE 41

CO-ORDS E N DEC^LN AZIMUTH RL

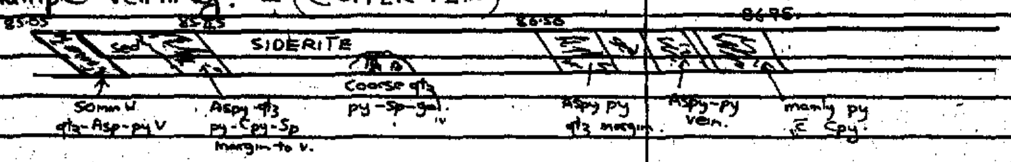
DATE COMMENCED DATE COMPLETED / / DRILLED BY DRILL RIG

GEOLOGIST(S) Relog summary. To compliment previous Logs D.S.J. 1983.

SURVEY DATA			INSTRUMENT		
DEPTH	CORRECT DEC^LN	AZIMUTH	DEPTH	CORRECT DEC^LN	AZIMUTH

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
[illegible]- 27.50	Tricored.		
27.5 – 57.60	yellowish - greenish gy siltstones, greenish gy tuff	Lack of hydrothermal	
	sandstones. Limonite on fractures to 50.5m.	alteration. thus differs	
	few narrow qtz veins.	from top RBE46, RBE33.	
57.6 – 58.36	Silicified tuff sandstone (Silica saturated)	boxwork 57.7 – 57.90. after py.	
58.36 – 60.6	Massive qtz Vein. Some lim on fractures.	2 trends 27°∠C Some fresh	= SALMONS.
60.6 – 62.80	Stockwork. - honey Combed.	and 52°∠C py	VEIN.
62.80 – 85.05	grey to green gy tuff sa predominate.	81.7. 20mm wide zone.	
	LIMONITE DOWN TO 81.60.	aggreg. py in tour - sed clast - py crude Vein.	
85.05 – 86.95	Multiple Veining. = (COPPER VEIN.)		



	28° to 34°∠C and earlier Logs record upto 45°∠C.		
86.95 – 93.30	grey to greenish gy tuffaceous sandstones.	90.85 30mm wide V py c̄ Aspy	60% py, Aspy Cpy.
	veins 45 – 46°∠C.	92.70 10mm wide V. (pyritic)	
		93.16 8mm wide.	
93.30 – 100.4	Dark grey shales predominate. Some pyrite	94.2 - 95.2 qtz - sid c̄ Aspy V,	some py.
	veins - wisps throughout. Vein at 94.2 43°∠C	100 – 100.05 qtz - sid V c̄ galena.	
	Vein at 100 at 58°∠c. 35mm wide. Stoped	Approx 14 semi parallel veins.	
	in middle by Later qtz (barren) veins.		
100.4 – 104.45	greensh gy tuff sa, with interbedded graded ss.	101.5m 70mm wide sideritic	
	103.05 vein main trend 55°∠C, 101.5m V 47°∠C,	vein Sp and py aggregs near margin.	
		103.05 – 103.4 py - qtz - sid V	
104.45 – 110.3	Black dk gy pyrite Shales. Wisps and aggregates of py.		

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COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

PROJECT AREA DRILLHOLE TYPE NO RBE 41

CO-ORDS E N DEC^LN AZIMUTH RL

DATE COMMENCED / / DATE COMPLETED / / DRILLED BY DRILL RIG

GEOLOGIST(S) Relog summary. To compliment previous Logs. O.S.T. 1983

SURVEY DATA INSTRUMENT

DEPTH	CORRECT DEC^LN	AZIMUTH	DEPTH	CORRECT DEC^LN	AZIMUTH

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
[illegible]·3 - 122.7	Predominantly Black carbonaceous pyritic shales	110.35-110.45. 100mm W Aspy	+qtz V. 5.66% Sn.
	Veins mainly Qtz-Carbonate (siderite) with	118.7 Banded Qtz. Carb V.	with Cpy, py 2-3%
	Arsenopyrite. Lesser Cpy - py. - Sp - Gal.	117.94-118.65. Aspy c̄ Cpy minor Sp. V.	
	Apart from 110.35. Veining Common from 117.94.		
122.7 - 126.4	Multiple Veining. Massive qtz with band of	Arsenopyrite and sulphides	
	siderite in middle to 125.5. Thereafter	concentrated 123.5 - 123.60	0.597%
	stockwork qtz. 23 and 45°∠C. trend.	pyrite in Black shales	Sn.
	TIN VEIN. average 0.597%	towards bottom.	
126.4 - 131.10	Intercalated sandstone and black shales. Some	qtz and Carbonate	
	Chevron folding Wisps of py assoc c̄ folding etc.	Veination. Mainly	narrow.
	main qtz v at 130.55 at 21°∠C.	130.55-131.0. Main qtz V.	
131.10 - 139.1	GABBRO.		
[illegible]1 - 147.5.	Black shale e dk gy siltstones. [Thus predom Black shale 93.3 - 147.5		
147.5 - 173.3.	Greenish gy Tuff sa and ss, interbedded shales.		
	Tuff sa 60%. Weakly calcareous in part	2-3% Veination.	
173.9 - 199	massive greenish gy fine tuff Sandstone. Some weakly, Calcareous.		
	(Start of unit with Calc Pelites, Cal Psammites) [see RBE 8 start of]		
199 - 208.4	Well bedded - Propylitic - Epidote - Chlorite alteration. [see greenschist RBE 38 etc]		
208.4 - 211.7	GABBRO coarse grained. partly Calcareous.		
211.7 - 215.3.	Disruptive tuff sa / dolomites		
215.3 - 218.65	GABBRO.		
218.65 - 230.0.	Zebra bed like. - fine well bedded.		
230.0 - 269.50	Mainly Gabbroic. [Don't consider it a pyroxenite until 269.5. (thus as RBE 8 two different intrusions)		
269.5 - 288.9	Pyroxenite. - Partly serpentinitized. Creamy grey foliated Talc Carb. at		277.50.
	287.8 - 288.9 Talc Carbonate converted to	qtz Carb. - Minor Aggreg Sp.	
288.9 - 297.6	Creamish altered banded tuff Sa, SS. Slithers talc Carbonate.		
297.6 - 308.4	Calc pelites, black Shales, convoluted bedding. (tuff cal sandstones 40%)		
308.4 - 309	GABBRO.		
309.0 - 317.2	Bedding as previous. Calcareous.		
E.OH	317.2.		

RBE41

~~TO BE COMPLETED~~ . 204 → 21

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	0-27.5	27.5	N.I	N.I %
	27.50	0.90	0.75 *	83.3%
	28.40	1.60	1.50 *	93.7%
	30.00	1.50	1.10 *	73.3%
	31.50	2.50	1.90 *	76%
	34.00	2.60	2.00 *	76.92%
	36.60	2.50	1.90 *	76%
	39.10	1.80	1.30 *	72.2%

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERALS
	0-27.50 TRICONED.					
27.0	27.50 - 52.40					
28.0	Very fractured, broken up core. Massive greenish grey medium grained	(85% Tso 15% ss/sh.)		28.15 B CIA - 48° 28.50 B CIA - 57°		
29.0 to coarse grained →	tuffaceous sandstone with siltstone horizons. Banding is limited - the siltstone lenses are commonly			→ Y CIA - 48°	2 cm band $\bar{c}$ 30-40% py. 30-40% py mineral^n in Tsa.	
30.0	discontinuous and deformed. - Minor quartz veinlets.					
31.0	- extensive oxidation occurring along fractures and veins.					
32.0	-29.50 2cm band, qtz + py. -29.90 - 30.05 Tso $\bar{c}$ disseminated py.			32.0 B CIA - 57°		
33.0						
34.0						
35.0				35.20 B CIA - 48°		
36.0						
37.0						
38.0						
39.0	- 2cm quartz veined band.			39.10 B CIA - 52°		
40.0						

* v broken up core - estimate only.

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH 41.

LOGGED BY .... FROM .... TO .... DATE ../../.. PAGE ...... OF ......

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	·40·90	1·40	1·00 *	71·42%
	42·30	2·20	1·50 *	68·18%
	44·50	1·40	0·60 *	42 8%
	45·90	1·30	1·15 *	88·46%
	47·20	1·50	1·30 *	86·6%
	48·70	2·70	2·65 *	98·14%
	51·40			

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERAL
41·0						
42·0						
44·6				(44·75) V CIA – 46° fracture b/w Tsa/ss.		
46·0						
48·0						
50·6				(50·90) B CIA sh/Tsa – 57°		
52·0	52·40 – 54·50 Fine grained grey Tsa, ss with black shale seams & filaments. – 53·20 band of py in massive Tsa.			53·10 B CIA – 41° 53·20 band py – 48°		
54·0	54·50 – 55·50 Predominantly medium grained Tsa, ss			54·90 B CIA – 68°		

SCALE 1:100 (1cm = 1 m)

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COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 41

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* v broken up core – estimate of core only.

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	55·00	2·50	0·80 *	32% *
	57·50	0·70	0·50 *	71·4%
	58·20	0·90	0·80 *	88·8%
	59·10	2·90	2·00	68·9%
	62·00	1·20	0·50 *	41·6%
	63·20	1·20	0·90	75%
	64·40	2·60	2·20	84·61%
	67·00	1·60	1·00 *	62·5%
	68·60	1·30	1·10 *	84·61%

LITHOLOGY

INTERVAL: 56·0, 58·0, 60·0, 62·0, 64·0, 66·0, 68·0, 70·0

DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PER MINERAL
55·50 – 57·60 Very broken up core. Silicified dark grey Tsa, partially oxidised.					
57·60 – 58·0 Weather, oxidised and Friable (rust-br + grey) Tsa + shale.					
58·0 – 58·30 – silicified darkgrey Tsa. very competent.					
58·30 — 60·60 Massive white quartzite Vein. Very hd, competent c̄ some banding. Deformed Tsa + black shale fragments 2-3% Minor druse cavities. Minor Siderite.			UVC – 27° (58·30) Qtz V B C/A – 32°	No visible mineralsation	
60·60. – 62·80. Very broken up + very oxidised quartzite which changes down hole to intensive qtz vein stockwork in Tsa + shale. Get honeycombed weathering features where sed's weathered out from more resistant qtz				Minor py.	
62·80 – 85·0 Mixed dark grey to grey shale with Fine to medium grained Tsa + ss. 3-5% Qtz vein stockwork at random. Banding / laminae scarce – predominantly deformed textures.			(63·60) Qtz V C/A – 52° (64·60) Qtz V^ C/A – 37°. (68·20) β Tsa/sh – 38°	Minor py.	

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SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 41

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* broken core – estimate only

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
	69-90	1-90	1-70	89-47%		Predominently massive competent grey to green grey tuffaceous sandstone c̄ siltstone and black shale horizons.				
	71-80	0-80	0-60	75%	72.0					
	72-60	1-80	1-40	77-7%						
					74.0					
	74-40	1-40	1-25	89-28%		→ 10 cm Qtz vein c̄ shale fragments.			74.70 β CIA - 57° γ CIA - 48° c̄ py. 75 Qtz v^n(10cm) -35°.	
	75-80	2-80	2-25	90%	76.0					
					78.0				78-85 β CIA - 55°	
	78-60	1-30	0-80	61-53%						
	79 90	2-70	2-20	81 48%	800					
					82.0	→ 82.10 Qtz vein c̄ py → 82-30 Graded bedding in Tsa, ss + blackshale			→ γ CIA - 35° (82-30) β CIA - 53°	
	82-40	1-30	1-30	100%						
						→ 83·80 Siderite vein c̄ qtz in Tsa.				2% disseminated aspy py ccp.
	83-70	2-90	2-90	100%	84.0					
						→ 84-90 3cm quartz vein c̄ 2% siderite and banded black shale in Tsa.			γ CIA - 46°	3-5% py

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 41

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	86·60	1·40	1·40	100%
	85·0 – 89·0			
	89·10	4·0	3·90	
	93·10	2·10	1·80	
	95·20	0·60	0·55	
	95·80	2·90	2·80	
	98·70	1·20	1·30	

LITHOLOGY

INTERVAL

86·0
88
90·0
92·0
94·0
96·0
98·0
100·0

DESCRIPTION

85·0 – 85·20 Massive Tsa c̄ qtz + siderite V^n 2-3%
85·20-85·30 Mineralised qtz V^n c̄ black shale partings.
85·30 – 85·45 Green grey massive Tsa.
85·45 – 85·55 Qtz siderite aspy, py, ccp qtz V^n.
85·55 – 86·55 Fawn br competent SIDERITE. Massive c̄ 2-3% deformed Tsa, sh + qtz.
86·55 – 86·60 contact zone c̄ qtz + 50-60% mineral^n?
86·60 – 86·70 Qtz and black shale c̄ mineral^n.
86·70 – 86·76 Green grey Tsa.
86·76 – 86·86 10cm mineralisation c̄ minor qtz + siderite.
86·86 – 86·90 4cm banded qtz, black shale + Tsa.

86·90 — 93·10
massive (greenish) grey fine and medium grained Tsa c̄ only minor banded siltstone. Micro fracturing c̄ disruption of bands at 92·50m. 1-2% Qtz Carb Veinlets.

– 90·75 – 90·80 5cm band qtz + mineral^n?

93·10 – 93·15 Tsa partially oxidised.
93·15 – 93·35 Partially weathered brecciated zone c̄ 30-40% Siderite, 2-3% qtz as matrix for deformed Tsa + shale fragments. uc c̄ Tsa.
93·35 – 94·27 Mixed sh/ss c̄ Tsa fragments. Irregular + discontinuous qtz Veins with py.
94·10 – 94·20 – 10cm mixed deformed Tsa, sh, ss c̄ 30-40% qtz, 5% py.
94·20 – 94·27 Qtz V^n
94·27 – 94·30 3cm band Siderite c̄ druse cavities
94·30 – 94·36 6cm QV. Tsa/sh impurities 1% aspy.
94·36 – 94·43 6cm Siderite c̄ druse cavities.
94·43 – 95·20 Qtz Siderite (60% siderite, 10-15% qtz, 10-15% aspy.)
95·20 – 96·90. Dark grey sh/ss c̄ Tsa fragments + siderite veins approx 5%.
(95·80 – 95·90 + fractured brecciated shale c̄ siderite vein matrix + green (chl?) alteration around edges of veins.
96·90 – 97·0 Qtz siderite Vein.

97·0 — 100·30 Flow textured? dark grey sh/ss c̄ Tsa fragments. 3-5% Qtz Carb Veining. 10cm qtz carb V c̄ py.

ALTERATION

(Tsa, sh, ss c̄ Qtz Carb Veining.)

(Tsa)

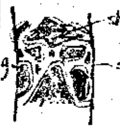
~~Qtz Carb Veining~~

(Mixed Tsa, sh, ss)

(Qtz Carb Veining)

Core loss!?

Core loss!?



(Partly sh, ss c̄ Tsa)

GRAPHIC LOG

STRUCTURE

UVC – 40 (85·20)
LVC – 44° (broken core) 85·30)
UVC – 35° (85·45)
LVC – 44° (85·55)
U.C 44° (85·55)
LC 45° (86·55) – contact zone to qtz vein 5cm thick.
LVC 42° (86·70) UVC (43°)
UVC 42° (86·76)
LVC 40° (86·86)
(86·86) B CIA – 40°
(87·90) B CIA – 49°
(90·55) B CIA – 55°
(90·65) B CIA – 47°
(90·75) UVC – 45°
(90·80) LVC – 34°
(91·60) B CIA – 52°
(91·75) B CIA – 56°
(92·70) B CIA 47°
(93·15) UC – 76°
93·34 LC – 25°
93·35 sh/Tsa Contact 54°
93·36 Qtz py V – 78°
93·39 Qtz py V – 50°
(94·20) UVC – 53°
94·27 LVC – 46°
94·36 UVC – 52° LVC – 49°
(95·25) Siderite Vn U + LC – 49°
(96·90 – 97·0) Qtz Siderite V – UVC – 38° LVC – 40°
(97·20) V CIA – 32°
97·50 B CIA – 41°
UVC – 54°, LVC – 62°

MINERALISATION

35-40% aspy, py, ccp c̄ siderite qtz.
Qtz V^n c̄ 5% siderite 30-40% ccp, aspy, py
Siderite – 10% ccp, py, aspy + minor galena.
5cm – 50-60% ccp, aspy, py.
(86·60 – 86·70) 10 – 15% ccpy, py, aspy in qtz
(86·76 – 86·86) 10cm c̄ 80-90% py c̄ ccp, aspy 5% qtz, siderite.
(86·86 – 86·90) 3-5% py ccp + galena.
(87·20) 2% galena + py.
(90·75 – 90·80) – qtz Tsa V c̄ 60-70% py, ccp, po?
(92·75) – band c̄ 30-40% py, ccp c̄ qtz Tsa
(94·36) – 1% galena, 10% Sphalerite at cc
(94·43 – 95·20) – 10-15% as py.
No Visible Mineral^n
(98·0 – 98·10) 10cm Qtz Carb V c̄ 60-70% py.
(100·04) 3cm banded qtz carb py + galena.

SCALE 1:100 (1cm = 1 m)

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LITHOLOGY

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	99-90	3-10	3-10	
	103-0	2-20	2-20	
	105-70	1-80	1-60	
	107-00	2-60	2-15	
	109-60	1-90	1-60	
	111-50	2-10	3-05	
	114-60	100	1-00	

INTERVAL

102-0
104-0
106-0
108-0
110-0
112-0
114-0

DESCRIPTION

100-30 – 100-76 Massive dk grey fine grained ss c̄ fine shale filaments.

100-76 – 101-50 Massive greenish grey medium grained Tsa. Minor deformed ss/sh at 101-30-40

101-50 – 101-62 Siderite Vein c̄ druse cavities + shale bands a LVC.

101-62 – 102-15 – Banded sh/ss c̄ Tsa fragments.

102-15 – 103-40 – Massive grey Tsa, 10cm ss/sh band at 102-75.

103-05 – 103-40. Dislocated, discontinuous microfractured qtz carb veins c̄ 30-40% py in Massive Tsa

103-40 – 103-70
Mixed Tsa, sh, ss – predominantly Tsa.

103-70 – 110-45
Massive dk grey/black partially weathered pyritic graphitic black shale.
c̄ ss + Tsa fragments.
Py in veins – 5-10% of unit.

110-45 – 110-56 Qtz carb Vn. c̄ Min^ + banded bl shale c̄ py at margins.

110-56. – 113-65
Predominantly massive grey Tsa c̄ black shale and siltstone.
2-3% qtz carb veining.

113-65 – 113-95 Banded qtz carb veins with black shale

113-95 – 122-70 Predominantly black shale but grading into shale, ss c̄ fine grained Tsa from 102-50. Banded qtz carb c̄ black shale b/w 117-60 – 118-40. Approx 5-10% qtz carb veining generally.

ALTERATION

(Qtz Carb Veining)

(Black shale)

(Pred'ly Tsa)

GRAPHIC LOG

STRUCTURE

(100-76) contact C/A – 74°
(101-50) contact C/A – 37°
(101-62) LVC C/A – 25°
(101-78) B C/A – 57°
(102-15) contact – 52°
(102-35) UC – 58°, LC – 52°.
(102-90) Qtz, Sid V – 53°.
(108-15) B C/A – 50°
(108-90) B C/A – 51°
UVC – 56°
LVC – 59°
(112-80) B C/A – 57°
(113-65) contact C/A – 51°
(113-70) B C/A of Qtz Vns + sh – 55°
(113-90) B C/A – 68°

MINERALISATION

(101-50) Siderite V^n 5-10% py, ccp. 10% qtz.
50% aspy 2-3% ccp <1% sph
5-10% py, 2-3% ccp, <2% bo

PERCENT MINERALISATION

SCALE 1:100 (1cm = 1 m)

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DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
115·60	2·30	2·15	
117·90	1·50	1·55	
119·40	1·10	0·96	
120·50	3·00	3·05	
123·50	2·90	2·85	
126·40	3·20	3·10	

LITHOLOGY

INTERVAL: 116·0, 118·0, 120·0, 122·0, 124·0, 126·0, 128·0, 130·0

DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
117·60 – 118·40 Banded qtz carb veins with black shale.	(Predly sh c̄ ss + Tso)		(117·60) B CIA - 67° 118·0 L contact CIA - 43° (118·30) B CIA - 47°	(117·60 - 118·30) Generally 5-10% py, minor aspy (118·0) 6 cm band c̄ 70-80% py.
			(120·95) B CIA - 42° (130·0) B CIA - 23° Qtz Carb V.	
122·70 – 125·50 Thick white qtz veins btw mixed Tsa, sh, ss. 122·95. V yellow incipiently oxidised carb - Fault zone. Veins – leached cavities associated c̄ veins generally. – 122·82 to 124·20 White qtz vein c̄ relic carbonate and shale fragments. – 124·20 to 125·0 Mixed Tsa, sh, ss c̄ qtz vein stockwork - 5-10%. – 125·00 to 125·50 White qtz vein c̄ relic carbonate and black shale fragments.	Qtz Veining in mixed Tsa, sh, ss. c̄ old leached cavities.		(122·82) UVC - 43° 122·95 Fault zone ? CIA approx. 45° (124·20) Indistinct LVC ~ 45°. (125·0) UVC - 23° (125·50) LVC - 35°	(123·50) 5 cm c̄ 2-3% aspy.
125·50 – 128·35. Predominantly massive fine and medium grained Tsa with intervals of mixed black shale, ss + Tsa and intensive qtz vein and veinlet stockwork btw 125·85 to 126·60 and intensive pyrite veinlets btw 127·20 to 127·75.	(Predly Tsa c̄ sh, ss)		127·50 V CIA - 44° 128·35 Contact CIA - 23°	(127·20 - 127·75) - 20-30% solid pyrite veinlets in black shale.
128·35 – 130·0 Mixed banded sh, ss + fine grained Tsa 2-3% qtz carb veining	Mixed Tsa sh, ss		(128·90) B CIA - 31° (129·40) B CIA - 40°	Minor py mineralⁿ.

SCALE 1:100 (1cm = 1 m)

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DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERAL
						130-0 – 130·50 Intensive white qtz vein stockwork in dk grey mixed sh, ss. 30-40% Veining. 130·50 – 130·75. Banded qtzcarb veins c̄ fine shale. 130·75 – 131·10 Massive white qtz vein c̄ relic carb and shale fragments.	(Partly Qtz Veining)		(130·65) B C/A – 49° UVC – 28° LVC – 23°	(130·50–130·75) – 5-10% py.	
					132 0 134 0 131-0 138·0	131·10 – 139·10 Dark grey to greygreen massive granular rock – Gabbro dyke? Distinctive mottled texture – very green with enhanced mottling effect from 134·50 – approximately 5% quartz carb veining. – seems to be a few black shale horizons? eg 133·10 – 133·35m has blshale c̄ ss & Tsa and associated qtz carb and shale banding at contact.	(Gabbro Dyke)		(133·10) QV / blsh? B C/A – 75° (133·35) QV / blsh B C/A – 73°	No Mineral^ Visible.	
					140·0 142·0 144·0	139·10 – 147·50 Massive black shale and banded with dark grey siltstone.; Interbedded with horizons up to 80cm of pale grey to grey, fine to medium grained massive Tsa. <5% qtz carb veining [60% blsh/ss 40% Tsa.]	(Mixed Tsa, sh, ss)		(139·10) L CONTACT – 51° (141·90) B C/A – 44° (144·30) B C/A – 32° (145·0) B C/A – 53°	V minor py mineralisation.	

SCALE 1:100 (1cm = 1 m)

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DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PER MINERA
									(145·50) B C/A – 57°		
					146·0						
						147·50 – Becomes predomenantly massive competent grey to green grey fine to medium grained Tso, c̄ siltstone and black shale horisons most commonly deformed rather than banded.			(147·50) Contact C/A – 38°		
					148·0						
									(149·35) B C/A – 35°		
					150·0	2-3% qtz carb veins + veinlets – random + often discontinuous + disrupted.					
									(150·30) B.C/A – 51°		
					152·0						
					154·0				(154·0) B C/A – 37°		
					156·0						
					158·0						
					160·0						

SCALE 1:100 (1cm = 1 m)

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LITHOLOGY

LOST CORE	DRILL ADVANCE DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
						160·35 - 160·95 - 35cm of banded shale + siltstone c̄ near vertical to hole dip + 2 noses of fold structures in predominantly fine to medium grained Tsa.			160·35 CIA. contact 55° 160·95, Contact CIA sh/Tsa - 53°	
					162·0					
					164·0					
					166·0	Mixed Tsa c̄ shale + siltstone. deformed bedding, partly massive Tsa, 60%.			166·70 B CIA - 47°	
					168·0				168·60 B CIA - 48°	
					170·0					
					172·0					
						173·30 — 173·90 35cm of banded siderite veining, then banded qtz, carb, bl shale c̄ marcasite.			Contact CIA 33° (173·65) CIA - 32°	(173·65 - 173·87) 40-45% py, aspy, ccp + po.
					174·0	173·90 Finely banded shale, siltstone and Tsa - dark grey to green grey to brown grey. 3-5% qtz carb veining. Micro fracturing. Banded CALC PELITE horizons.	Partially hornfelsed?		CONTACT CIA - 28° (174·35) B·CIA - 47°	(173·87 - 173·90) 3cm c̄ 75-80% min? 50% galena, 30% ccp, py, aspy + qtz carb gouge.

SCALE 1:100 (1cm = 1 m)

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DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERAL
									(175·0) B CIA - 46°		
					176·0						
									(176·50) B·CIA - 47°		
						177·50 - 201·80			(177·10) B CIA - 61°		
					178·0	Similar to previous but more massive rather than well banded Competent massive, green grey fine Tso, siltstone c̄ shale filaments and minor shale horizons. Deformed structures common.					
					180·0	2·3% qtz veining.					
									(181·30) B CIA - 35° (181·50) B CIA - 54°		
					182·0						
					184·0				(184·0) B CIA - 53°		
									(184·60) B·CIA - 42°		
									(185·95) B CIA - 45°		
					186·0				(186·0) B CIA - 39°		
					188·0				(188·25) B·CIA - 53°		
					190·0						

SCALE 1:100 (1cm = 1 m)

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DRILL ADVANCE

LOST CORE | DEPTH | DRILL ADVANCE INTERVAL | CORE RECOVERY | PERCENT RECOVERY

LITHOLOGY

INTERVAL

192·0
194·0
196·0
198·0
200·0
202·0
204·0
205·0

DESCRIPTION

201·20 – 201·80 V brecciated deformed zone.

201·50 – 208·40
Predominantly finely banded grey green fine grained Tsa and siltstone, with very minor shale fragments.
Finely banded SS units may be weakly calcareous – resemble calc. pelites in form.

ALTERATION

'Propyllitic'
epidote/chlorite
intrusive alt.
haloe.

GRAPHIC LOG

STRUCTURE

(191·80) β CIA - 42°
(192·70) β CIA - 38°
(194·85) β CIA - 36°
(195·30) β CIA - 52°
(197·45) β CIA - 37°
(199·0) β CIA - 52°
(201·95) β CIA - 56°
(202·40) - 42° β CIA.
(203·30) β CIA. - 52°
202·50 bedding warp
(205·0) β CIA - 52°

MINERALISATION

2-3% qtz carb.
veins & veinlets.

PERCENT MINERALS

SCALE 1:100 (1cm = 1 m)

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C.I.A. 57°
222.95 - 223.0 qtz/carb. 123 qcb dispersed [illegible]

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
					205.0				C.I.A.	
					206.0					
					208.0	208.40 - 211.70 Grey green foliated ultrabasic - pyroxenite?/ gabbro? Weakly brecciated (@) contact with calcite matrix. - sub parallel to bedding - subsequent foliation is parallel to bedding Rafts, filaments and clasts of black shale incorporated	Weak/incipient conversion to TALC?	CA	208.0 B. 49° CONTACT 80° 209.0 FOL. 45°	
					210.0		Very weak ? magnetic response			209.70 5cm qtz carb. CIA 51° vein 10% py Trace sp aspy? sub // to foliation.
					212.0		1% qtz veinlets or frac infill		211.90 CONTACT. CA 49° at 80-90° 212.0 B. 45° to bedding	Trace py in fracs.
					214.0	211.70 - 215.30. Grey green, & pinkish brown. disrupted fine grained massive, in part banded tusa/dolomite?	chlorite infilling fracs.		215.30 CONTACT CIA 75°	
					216.0	215.30 - 218.65. Mottled grey green. GABBRO. dyke with chilled irregular. upper + lower contact & Centre coarsely granular - anhedral.	½ - 1% calcite frac. infillings. uralitised.			Trace to 1% Po as clots and frac infillings minor qtz/siderite veinlets
					218.0	218.65 - 230.0. Mixed banded tusa 50% ss 45%. Sh. 5%. - grey, dark grey + black.			218.65 CONTACT C.I.A. 80°	
					220.0				220. B. C.I.A. 52-55°	

SCALE 1:100 (1cm = 1 m)

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DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
					220.0	beds (cyclic) essentially narrow. 0.5 - 10.0cm. thick. Tusa forms thickest unit	10 - 15% irreg qtz veinlets		Hydraulic fracturing	
					222.0	Bedding interfaces exhibit	infilling weak			
					223.0	weak convolute bedding ie kinks-waves- and micro	hydraulic fracturing (dislocation by		222.95. V CIA 54° 223.0 Gb. Contact CIA 60°	222.95 5cms Qtz/Carb vein Trace py.
					224.0	disruption. (223.0 - 224.0 Gabbro dyke	ultramafic emplacement)		224.0 Gb Contact CIA 30° & sub parallel to bedding	
						with irreg intrusive contacts exhibits 10% calcite fracture	1% calcite and siderite		225.30 B. CIA 40°	Trace to 1% fracture Po/Py.
					226.0	infillings and rafts of and wisps of black shale + SS.	fracture infillings		variable bedding attitude	
					228.0				228.0. B. CIA 58°	
						Unit ends in black graphitic shale with minor sq.				
					230.0	230.0 - 238.0		TC	230.0 CONTACT Shale/Talc carb CIA v. 80° ∠ 60°	
					232.0	Green altered contact zone between banded seds (Tusa/ss/sh) and ultrabasic (pyroxenite?) intrusive.	Contact metasomatism.		Minor intrusive or tensional brecciation	
					234.0	Zone comprises altered banded seds, green foliated crystalline pyroxenite and minor irreg. areas of grey TALC after pyrox.?	Trace to 1% free calcite			
					235.0					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 41

LOGGED BY .... FROM .... TO .... DATE / / PAGE ...... OF ......

DRILL ADVANCE					LITHOLOGY						
LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCE MINERA
					235.0						
					236.0						
					238.0	238.0 - 269.50 Green (grey) crystalline foliated Pyroxenite Inert massive zone					
					240.0		Trace to 1% calcite veining + frac infillings.		foliation c/a's 25-35°	Tr - to 1%. siderite (g/s) veins + frac. infillings Trace Po.	
					242.0						
					244.0						
					246.0						
					248.0						
					250.0.						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH 41

LOGGED BY ________ FROM ________ TO ________ DATE / / PAGE ____ OF ____

DRILL ADVANCE					LITHOLOGY						
LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERC MINERA
					250.0	See previous page.					
					252.0						
					254.0	Pyroxenite					
					256.0	Remnant films, partings and irregular clasts of black graphitic shale.					
					258.0						
					260.0						
					262.0						
					264.0						
					265.0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 41

LOGGED BY .... FROM .... TO .... DATE ../../.. PAGE ...... OF ......

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260.50 - 20?

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PER MINER
					265.0						
					266.0		Pyroxenite				
					268.0				268.50 Slick C/A 20°		
					270.0	269.50 - - 278.90. Dark green to green black soapy SERPENTINITE grading into dark apple green / foliated serpentinite - thence into creamy grey. foliated TALC CARBONATE at 277.50 Degree of alteration / conversion to Talc Carbonate varies	Serpentinite			Trace chrysotile fibre	
					272.0						
					274.0						
					276.0				277.50		
					278.0	Traces, only of basemetal mineralisation	Incipient alt. of serp. to Talc carbonate Zone Transit. Talc Carb.		278.50 Fol. C/A 25°-30°		
					280.0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 41

LOGGED BY ________ FROM ________ TO ________ DATE _/_/_ PAGE ____ OF ____

DRILL ADVANCE

LOST CORE | DEPTH | DRILL ADVANCE INTERVAL | CORE RECOVERY | PERCENT RECOVERY

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERC. MINERAL
280.0	Essentially creamy grey Talc Carbonate after serp. remnants of serpentinite visible.	280.50 – Incipient/partial conversion of serp to Talc Carbonate 283.90 –				
282.0						
284.0						
286.0				– 286.40. FOL C/A 30°	– 286.40. 2×2mm. black sp stringers flanking core of Tc (tr py)	
288.0	– 288.90 – 299.60 Greenish grey altered (talcose) banded sediments essentially tuffaceous. Slithers and stringers of pale grey and green <u>talc carbonate</u> squeezed in and across bedding	Talc Carb. partially converted to SIDERITE		– 289.90 CONTACT C/A 30°		
290.0						
292.0						
294.0						
295.0				295.0 – B. C/A 40°-45°		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 41

LOGGED BY .... FROM .... TO .... DATE ../../.. PAGE ...... OF ......

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY

LITHOLOGY

INTERVAL

295.0
196.0
298.0
300.0
302.0
304.0
306.0
308.0
310.0

SCALE 1:100 (1cm = 1 m)

DESCRIPTION

297.60

Mixed sediment unit –
principally black graphitic pyritic.
<u>SHALE</u> with convolute
bedding
Tuffaceous sandstone [illegible].
other component
approx 60% sh to 40% sa.

Sporadic minor qtz
carbonate veins + stringers
with sp.

← 308.40 – 309.10 GABBRO DYKE

ALTERATION

10-15% calcite
vein & fracture
infillings.
– mainly in
shale

GRAPHIC LOG

STRUCTURE

– 299.0 B.C.A 40°

– 306.0 B.C.A 45°

– 308.40 U. CONTACT C.A 50°

– 309.10 L. CONTACT C.A 40°

MINERALISATION

– 304.20 Trace to 1% sp.

– 306.40 Trace to 1% sp.

PER MINER.

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH 41

LOGGED BY .... FROM .... TO .... DATE ../../.. PAGE ...... OF ......

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
					310.0	See previous page.				
					312.0					312.0 5cm Qtz ab. vein 5-10% py Trace Sp
					314.0				314.0 V. C.A. 40° 314.50 B C.A 40°	314.0 8cm Qtz (carb) vn. 5% Sp.
					316.0					
					317.0	317.20 EOH.				

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 41

LOGGED BY .... FROM .... TO .... DATE ../../.. PAGE ...... OF ......

45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
56	145	1200		7425 *	5800 *	70 *	3700		145.		✻ By method 104					22039
57.50	111	1250		1.34%*	3550	96 *	8200		140					* [illegible] by method 104.		
59.10		see next page														

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COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 41

ASSAYED BY ANALABS FROM 45m TO 60m DATE 13/10/82 PAGE 1 OF 15

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
From 59.1 62.0	19	500		490	500	9.0	550		100							
63.1	40	1950		835	575	131 *	5100		95					* denotes by method 104		
64.4	57	1750		2500	1200	57 *	2700		140					* denotes by method 104.		
67.0	14.	200		570	670	7.5	320		140					Split Core		
	x	95		580	460	1.0	97		120.							22040
68.5	28	110		425	570	0.5	200		110							22041
70	x	65		100	550	x	200		140							22042
71.5	x	125		105	465	x	59		140							22043
73. 74.4	79	360		460	800	2.0	3100		105.							22044
		see	next page.													

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY ANALABS FROM 60m TO 75m DATE 13/10/82 PAGE 2 OF 16

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
From 74.4	118	2100		125	460	15 *	5700		120				* By	method 104.		
75.80	228	505		895	940	15.5.	130		145				Ground	Core ↑		
78.60																
84	73	285		715	905	2.0	200		125					Split	Core.	Z2045
85.05	224	9450		405	445	49	4.80%		215				Split	Core ↓		Z0936
85.45	62	7500		370	400	38	1.15%		90							Z0937
85.90	9	45		60	80	1.0	2800		45							Z0938
86.25	36	1.29%		505	550	54	2.10%		120							Z0939
86.60	728	1.22%		3781	3100	101	1.50%		160				Split	Core ↑		Z0940
87m	21	165		3900	1450	6.5	590		130				Ground	Core ↓		
88m	840	115		125	430	1.5.	130		130							
89.10	see	next page.														

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY ANALABS FROM 75m TO 90m. DATE 13/10/82 PAGE 3 OF 16

97

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
From 89.10	19	860		355	550	2.0.	120		120							
91.10	42	130		75	380	BLD	120		135							
93.10	377	950		695	2450	4.0	660		85							
94.20	3980	780		1300	9850	6.5	2.30%		65							
95.20	159	500		1850	9250	4.5	650		65							
96.20	140	260		1650	6650	4.5	1500		80							
97.40	80	210		240	1150	1.0	740		85							
98.70	226	170		90	575	1.0	210		75							
99.90	108	140		1000	980	0.5	150		115							
101.10	379	130		15	280	BLD	100		115							
102.10	166	40		5	200	BLD	90		115							
103 m	86	390		BLD	300	10	510		120							
104 m 105.2.	269	175		155	255	1.0	250		100							

90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY ANALABS FROM 90m TO 105m DATE 13/10/82 PAGE 4 OF 15

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metres	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni			S G.				SAMPLE NUMBER
105.2	18	210		625	1150	1.0	90		105							
107	206	205		25	460	1.5	250		120							
108.5 to 110.3	168 295	355 120		65 70	565 310	5.0 0.5	900 130		115 210		upper fig ground core. Lower fig 108.5–109.6m. Split C.				↑ Ground C Split Core	22046.
109.6	270	245		105	210	2.0	170		235						Split C ↓	20478
110.3	5.66% *	4750		1600	7200	29 *	18.5%		420				* BY METHOD 104			20479
110.5	420	1950		535	1850	9.0	1900		390				* Sn by 404			20480
111.5	310	145		100	370	1.5	420		215							20481
112.6	80	95		45	235	0.5	180		150							20482
113.7	1500 *	5450		325	465	28 *	7000		415				* By method 104			20483
114.0	200	300		215	470	2.0	270		600				* Sn by 404.			20484
114.6	100	130		380	890	2.0	610		445						Split C ↑	20485.
115.2 From 114.6 to 117.9	474 55	730 130		235 315	845 785	1.5 0.5	1200 370		110 185.		Lower fig Split Core 115.2-116.9.				Ground Core. Split Core	22047.
116.9	360	220		135	250	1.0	1400		265						Split C ↓	20486
117.5	3660	7100		115	215	22 *	4.5%		165				* By method 104			20487
118.1	240	555		45	190	1.0	5200		200						↑	20488
118.5	1000	1000		30	125	1.5	100		200						Split C	20489
119.0 from 117.9	1400 183	2300 155		65 80	300 185	5.5 1.0	1.2% 160		90 145		Lower fig Split Core, 119-119.4				Ground C Split Core ↓	22048.
119.4 to 121 123.5.	251	185	See	Next page. 110	195	1.5	180		145.							22049

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 41.

ASSAYED BY ANALABS Pty Ltd FROM 105m TO 120m DATE 25/1/83 PAGE 5 OF 15

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
from 119.4 to 123.5	1350															
	147	145		270	665	4.0	110		120					Split Core 121-122.1	(Supersedes Ground Core)	22050
122.10	670	935		600	950	6.0	80		110							20490
122.60	4300 *	365		1100	2750	4.5	650		185					* Sn	by method 404	20491
123.50	1.17%*	245		175	375	2.0	2.00%		375					* Sn	by method 404	20492
124.10	550	305		120	290	2.5	100		145							20493
124.70	1.41%*	40		115	425	0.5	1200		225					* Sn	by method 404	20494
125.35	3350	245		175	485	3.0	3100		150							20495
126.40	1950	160		140	245	3.0	4000		140							20496
126.70	570	530		230	360	10.0	2000		180							20497
127.15	1500	1200		60	90	6.5	3400		120							20498
127.80	90	320		650	1750	1.5	540		180							20499
128.30	250	75		440	1650	0.5	690		145							20500
128.90	180	95		30	150	8.0	330		155							20942
129.50	35	85		190	515	0.5	750		240							20943
130.25	1050	410		930	1550	8.5	5200		215							20944
130.95	55	240		250	705	1.0	1100		135							
134.6		See	Next page.													

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 41

ASSAYED BY ANALABS FROM 120m TO 135m DATE 26/1/83 PAGE 6 OF 15

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	12	85	620	30	160	0.5	38		185							
139.70	12 8	135	620	25	485	1.0	21		125							
141.60	13 55	85	420 420	115	1200	1.0	36		90							
144.70	15	170	240	840	1900	BLD	7		105							
149.80																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY Analabs FROM 135 TO 150 DATE 27/10/82 PAGE 7 OF 16

150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	15	130	130	2100	7050	1.0	7		100							
154.80	5	155	270	145	1150	2.0	9		90							
159.20	7	150	270	10	250	2.0	14		90							
162.20	BLD	145	230	40	400	1.0	8		95							
164.80																

422159

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY Analabs FROM 150 TO 165 DATE 27/10/82 PAGE 8 OF 16

METRES	Sn	Cu	W	Pb	Zn	Ag	AS	Au	Ni	SG						SAMPLE NUMBER
	6	185	230	730	3750	0.5	BLD		100							
167.90	10	75	340	550	2100	1.5	26		75							
171 m	46	610		3.19%*	0.79%*	48*	7100		75				* checks by method 104.			
174.10		120	130	645	570	12.5	290		100							
177.20	33	70	330	210	390	1.0	65		145							
179.70																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY ANALABS FROM 165m TO 180m. DATE 27/10/82 PAGE 9 OF 16

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S.G						SAMPLE NUMBER
	8	85	130	45	420	0.5	35		265							
182.80	BLD	75	60	50	165	1.0	16		390							
185.90	BLD	30	60	25	155	BLD	9		395							
189 m	BLD	60	25	20	145	BLD	10		450							
192.10	BLD	50	230	80	190	BLD	12		215							
195 m																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY ANALABS FROM 180 m TO 195 m DATE 27/10/82 PAGE 10 OF 15

422161

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S G						SAMPLE NUMBER
	4	65	130	90	455	0·5	4		180							
198·10	BLD	125	190	85	235	BLD	6		260							
201·20	BLD	70	80	65	375	BLD	11		140							
204·30	5	90	65	365	725	BLD	11		260							
207·40	BLD	60	80	180	350	0·5	110		510							

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY Analabs FROM 210 TO 210m DATE 27/10/82 PAGE 11 OF 15

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
210.50	BLD	70	200	65	260	BLD	12		130							
213.60	BLD	135	180	25	205	0·5	12		135							
217 m	7	85	180	20	165	BLD	6		90							
220 m	7	70	320	55	425	0·5	10		85							
223 m										End of Sampling to 273.9.						

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY ANALABS FROM 210m TO 225 DATE 28/10/82 PAGE 12 OF 15

270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
273.90	BLD	15.		5.	105.	0.5	37		1500							
276.80	4	5.		BLD	65.	BLD	11		1500							
279.90	BLD	BLD-		5	70.	BLD	5		1850							
282.70	5	5.		BLD	45	BLD	5		1300							

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY ANALABS FROM 270 m TO 285 m DATE 28/10/82 PAGE 13 OF 16

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
285m			10													
285·80	29	10	40	60	120	BLD	670		1650							
288·90	7	15	15	5	135	2·5	140		440							
291·20	BLD	60	30	10	125	BLD	11		320							
294·30	9	80	170	15	120	BLD	12		260							
297·40	BLD	90		40	205	2·0	73		305							

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY Analabs FROM 285m TO 300m DATE 28/10/82 PAGE 14 OF 16

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
300·50	BLD	90	130	10	190	0·5	24		360							
303·60	BLD	75	230	150	5300	BLD	22		100							
306·70	BLD	80	440	40	265	BLD	9		80							
309·80	5	100	270	140	620	BLD	110		75							
312·90	BLD	75	270	110	2450	BLD	270		80							

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY ANALABS FROM 300m TO 315m DATE 28/10/82 PAGE 15 OF 16

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
316 m	I/S	140		140	460	2·0	50		95							
317·20	EOH															

315
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COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBF 41

ASSAYED BY ANALABS FROM 315 m TO 330m DATE 28/10/82 PAGE 16 OF 16

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
105.20	18	210		625	1150	1.0	90		105							
107 m	206	205		25	460	1.5	250		120							
108.50	168	355		65	565	5.0	900		115							
110.30	2.08%	3350		865	5050	21	5.45%		125							
111.50	255	285		80	410	5.0	420		120							
112.60	73	785		25	390	BLD	280		145							
113.70	1550	980		400	490	33	8450		90							
114.60	474	730		235	845	1.5	1200		110							
117.90	1400	2300	650	65	300	5.5	1.20%		90							
119.40																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY Analabs FROM 105m TO 120m DATE 13/10/82 PAGE ~~6~~ 5A OF ~~14~~ 16

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
105.20	18	210		625	1150	1.0	90		105							
107 m	206	205		25	460	1.5	250		120							
108.50	168	355		65	565	5.0	900		115							
110.30	2.08%	3350		865	5050	21	5.45%		125							
111.50	255	285		80	470	5.0.	420		120							
112.60	73	185		25	390	BLD	280		145							
113.70	1550	980		400	490	33	8450		90							
114.60	474	730.		235	845.	1.5	1200		110							
117.90	1400	2300.	650	65	300	5.5	1.20%		90							
119.40																

422169

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 41

ASSAYED BY ANALABS FROM 105 m TO 120m DATE 13/10/82 PAGE 5A OF 16

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	1350	1050		260	3350	3.5	500		105							
123.50	4388	470		140	650	3.0	2800		90							
126.40	261	430		225	850	3.0	1400		95							
129.60	55	240		250	705	1.0	1100		135							
134.60		See next page.														

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 4

ASSAYED BY ANALABS FROM 120 TO 135 DATE 27/10/82 PAGE 6A OF 16

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	1350	1050		260	3350	3.5	500		105							
123.50	4388	470		140	650	3.0	2800		90							
126.40	261	430		225	850	3.0	1400		95							
129.60	55	240		250	705	1.0	1100		135							
134.60																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 4H

ASSAYED BY ANALABS FROM 120 TO 135 DATE 27/10/82 PAGE 6A OF 16

114

422172

DRILLHOLE LOGS

R.B.E. 42

422173 115

	METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG	Mo					SAMPLE NUMBER
165																	
166																	
167																	
168																	
169																	
170																	
171																	
172																	
173																	
174																	
175																	
	175.70														Start of Sampling.		
176																	
177																	
178		BLD	10		20	70	BLD	13		2250							
179																	
180	179.80																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 42

ASSAYED BY ANALABS FROM 165m TO 180m DATE 28/10/82 PAGE 1 OF 7

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG	Mo					SAMPLE NUMBER
	5 4	90 755	1060	30 25	125 725	BLD 1.5	BLD 2		2400 2700			Report Report	82/114 82/130 (deeper ground 2nd sample) USE LATER DATA	6 1 08 6 1 08	1541 1591	
183.40	BLD BLD	80 1250	1300	60 30	190 1250	1.0 27.0	5 BLD		2500 3100			Report Report	82/114 82/130 (deeper ground 2nd sample) USE LATER DATA	6·1·08 6·1·08	1541 1591	
186.30	112 7	340 1550	1400	0.19%* 315	1.11%* 2000	33* 31	630 190		2750 3700			Denotes Report Report	by method 104. 82/114 82/130 (deeper ground 2nd sample) USE LATER DATA	 6·1·08 6·1·08	 1541 1591	
189.70	99	175		715	2500	1.5	90		225							
191.50	19	110		225	925	1.0	200		145							
194.60																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 42

ASSAYED BY ANALABS FROM 180 TO 195 DATE 26/10/82 PAGE 2 OF 7

422175 117

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	14	205		200	325	2.0	170		105							
197.20	BLD 5	105 385	80	20 20	195 380	BLD 22	30 30		155 230				Report 82/1130 6108 1591 USE LATER DATA			
199.10	BLD	115		30	145	BLD	43		135							
202.70	BLD 5	215 370	140	75 60	165 410	0.5 41.0	54 51		195 200				Report 82/1130 6108 1591 USE LATER DATA.			
204.80	4	115		145	500	0.5	74		135							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 42

ASSAYED BY ANALABS FROM 195m TO 210m DATE 28/10/82 PAGE 3 OF 7

422176 118

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
210.50	BLD	130		50	210	0.5	100		110							
213.60	10	150		10	115	BLD	23		115							
216 m	BLD	120		30	200	0.5	39		160							
221 m	BLD	120		35	115	0.5	57		115							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 42

ASSAYED BY ANALABS FROM 210 m TO 225 m DATE 28/10/82 PAGE 4 OF 7

422177 119

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
227 m	7 BLD	125 1250	1800	45 60	125 1150	2.0 24.0	310 200		90 340				Report 82/130	6	108 1591	
228.60	BLD	115		15	245	1.0	340		160							
232.10	BLD	125		20	215	1.5	93		155							
234.30	BLD BLD	125 175	80	50 40	190 305	1.0 4.0	71 69		170 200				Report 82/130	6	108 1591	
236 m	4	210		80	250	1.5	29		150							
237.80	4 6	95 390	110	115 85	125 360	0.5 16.5	58 64		130 200				Report 82/130	6	108 1591	
239.30																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 42

ASSAYED BY ANALABS FROM 225 m TO 240m DATE 28/10/82 PAGE 5 OF 7

422178120

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S.G						SAMPLE NUMBER
	BLD 4	165 165	65	115 105	180 120	BLD 1.5	81 70		135 120				Report 82	/130 6	108 1591	
240.80	BLD 6	100 275	50	40 45	120 285	1.0 13.5	20 24		130 180				Report 82	/130 6	108 1591	
242.20	10	105		30	130	0.5	150		440							
245.50	4	135		15	80	1.5	11		105							
248.60	BLD	135		20	90	0.5	18		135							
251.0	BLD	95		35	95	BLD	23		110							
254.60																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 42

ASSAYED BY ANALABS FROM 240 m TO 255 m DATE 28/10/82 PAGE 6 OF 7

422179 121

	METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
255																	
256		7	140		85	260	1.5	38		100							
257	257m																
258																	
259																	
260																	
261																	
262																	
263																	
264																	
265																	
266																	
267																	
268																	
269																	
270																	

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 42

ASSAYED BY ANALABS FROM 255 m TO 270 m DATE 28/10/82 PAGE 7 OF 7

T22

422180

DRILLHOLE LOG
R.B.E. 43

AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG
Summary Sheet

422181

Page
of

PROJECT EAST RENISON **AREA** GAR/GAP GRID SOUTH EXTENSION

DRILLHOLE TYPE DDH

CO-ORDS 372 359.0E 5370 882.8N **DEC^LN** −45° **AZIMUTH** 258°M **RL** 171.2

DH No. RBE43

DATE COMMENCED 30.8.82 **DATE COMPLETED** 20.9.82 **DRILLED BY** LONGYEAR **DRILL RIG** LY 38

Non Coring to: 10.50m. **HQ Core to:** — **NQ Core to:** 418.00m. **BQ Core to:** — **EOH** 418.00m.

SURVEY DATA

Instrument:

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr			Uncorr	Corr	

LOG SUMMARY

ROCK TYPE		MINERALIZATION		
		Style	Grade	Intersection width (Corr)
0 – 10.5	TRICONED.			
10.50 – 76.80	CONGLOMERATE + minor GRIT.			
	chert and basic clasts - latter.			
	predominant at base. Matrix			
	variably haematitic ± magnetite			
	and calcareous. (RED LEADS)			
76.80 – 137.0	Banded grey/black calc. sa			
	calc. ss and shale.			
137.0 –				

Signature **Date**

RBE43 . TO BE COMPLETED 75m

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DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERC. MINERAL.
					0	TRICONED					
					2						
					4						
					6						
					8						
					10	10.0 -					
					12	10.60 - 22.50. Weathered + broken pale grey green polymict conglomerate - Red Lead ? Porous zone, fractures + some bedding planes heavily coated with orange/brown limonite	Oxidised zone.		competent weathered zones. interspersed with broken zones. & fractured zones.	limonite	
					14						
					15						

SCALE 1:100 (1cm = 1 m)

422182

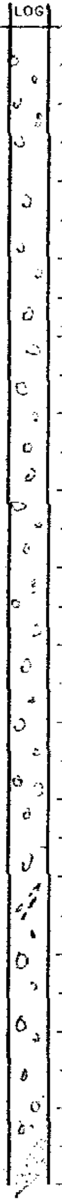
COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43.

LOGGED BY Sly FROM 0 TO 15 DATE 20/9/82 PAGE 1 OF 29.

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PER MINERA
					5						
					16	Weathered. Polymict CONGLOMERATE	Rare. leached calcite veins and fractures to 20.0m				
					18						
					20						
					22	22.50 – 27.40 (Partially oxidised). Green grey. fairly competent POLYMICT CONGLOMERATE with some limonite coated fractures Minor coarse sandstone/grit bands and fine grained conglomerate with parallel aligned elongate clasts upto 1cm in length. Clasts + matrix appear to be of predominantly basic to intermediate origin – (minor chert clasts) Clasts upto 10cms diam. average 1-2 cms.					
					24						
					26				26.30 B.C.A 45° cont. 10cm		
					28		Partially oxidised to 27.40				
					30				29.50 B. C.A 55° C.gr tsa 20cms.		



SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 43

LOGGED BY .... FROM 15 TO 30 DATE / / PAGE 2 OF 29.

422183

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DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCE MINERA
					30	(30.50 – 30.80 – coarse grit/f.gr. conglomerate elongate clasts upto 5mm – parallel aligned with random cobbles upto 50mm diam. – grades down into 20cm of coarse congl. into the 15cm of c.gr. sa. → uniform conglomerate.	Occasional limonite coated and leached calcite fractures & veinlets to 45.50.		– 30.60. B. C/A 55° – 30.80. C. C/A 55°.		
					32	32.60 – 38.70. CONGLOMERATE as above but with zones exhibiting leached: porous. matrix cavities lined by lustrous chlorite and epidote green minerals.					
					34						
					36						
					38	38.70 – 46.35. 95% Massive CONGLOMERATE with rare brick red calcareous clasts 5% Grit & coarse grained sandstone bands.					
					40						
					42						
					44				– 44.40 – 45.40 – c.gr. sa.		
					45						

SCALE 1:100 (1cm = 1 m)

422184

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

LOGGED BY .... FROM 30 TO 45 DATE / / PAGE 3 OF 29

DRILL ADVANCE					LITHOLOGY						
LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERC MINERAL
					45		45.50				
					46	46.35 – 60.00 Massive green grey CONGLOMERATE as above but with appearance of haematitic red clots, stringers and irregular patches within matrix – magnetic in part:- frequently rims breccia? clasts and selvages. fractures traversing clasts.	46.40 · RET. 20455. ACT. VEINED GRIT/CONGLOM. ±2% Calcite veining		46.35 V. C/A 55° sub. ll to bedding	46.35 10mm White calcite epidote vein TRACE BORNITE? Sparsely & erratically dispersed grains and aggregates of specular haematite in matrix of conglomerate. & also occurs on some fractures.	
					48						
					50				50.80 B. C/A 50°		
					52						
					54	Approximately 70% clast material 30% matrix.					
					56	Occasional 20–80cm thick bands of grey green fairly feldspar porphyritic material may be basaltic flows rather than large cobble clasts? as top & bottom contacts are regular although no cooling effects visible			56.50 V. C/A 58°	56.50 White qtz vein with inclusions of wall rock. Minor siderite/ankerite Some magnetite probably associated with haematite.	
					58						
					60						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE43

LOGGED BY .... FROM .... TO .... DATE ../../.. PAGE 4 OF 29

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	STRUCTURE	MINERALISATION
60	60.0 – 64.50 green grey CONGLOMERATE but diminished haematite content High % of basic clasts and % of matrix has increased to appr. 45%. Clast size generally smaller although some large cobbles do persist			
62			62.75 V. C/A UC. 40° LC. 45°	62.75. 25cm sheeted white qtz cream carb. vein. Core of veined py/cp. 5%. sp Gn 1.5%
64	64.50 – 65.20 Pale grey GRIT composed of subangular to sub rounded pale grey qtz, chert and sandstone. Clasts up to 5mm diam	64.30 PET. 20456. QTZ PEBBLE CONGLOM.	64.50 B C/A UC. 60°	
		65.30 PET. 20457. SERICITIC PSAMMO-PELITE	65.20 LC. 45°	
66	65.20 – 68.55 Pale grey to cream banded. dolomite? calc pelite / limestone and fine grained calcareous sandstone / grey towards base.	2-3% calcite veining	66.30 B. C/A 50°	
68	68.55 – 76.80 Green grey clast poor CONGLOMERATE with intercalated 10-15cm bands of calcareous sandstone Matrix weakly calcareous in part.		68.55 V. C/A 65°	68.55 30cm. sheeted white qtz cream carb. vein – vuggy in part with pert. psd clr sa.
70				
71			71.00	
72			71.70 Semi. SHEAR ZONE C/A 17°	
			73.10 B C/A 55°	
74				
75				

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

LOGGED BY .... FROM .... TO .... DATE ../../.. PAGE 5 OF 29

DRILL ADVANCE

LOST CORE | DEPTH | DRILL ADVANCE INTERVAL | CORE RECOVERY | PERCENT RECOVERY

LITHOLOGY

INTERVAL

75
76
77
78
80
82
84
86
88
90

DESCRIPTION

CONFORMABLE CONTACT
76·80 –
Weak to moderate
CALC PELITE ZONE
comprised of well and regular
banded :–

Pale grey. porous fine
to medium grained } 20-30%.
calcareous sandstone
5mm – 50mm thick.
Grey to dark grey. fine
grained calcareous. } 65%.
Siltstone 3mm-30mm thick

Dark grey to black.
shale. usually as partings } 1-5%.
rarely upto 5mm in thickness.
Usually only a veneer.
Individual beds do not
exceed 5 cms in thickness.

Rare grit bands upto
10 cms thick.

ALTERATION

76·70 PET. 20458.
SCORIACEOUS BEAT
BRECCIA.

5-7%
calcite
veining
+
fracture
infillings.

GRAPHIC LOG

STRUCTURE

76·80 B. CONTACT CIA 58°
79·0 B CIA 54°
some
[illegible]
faulting
81·70 – 81·40. Bxd bed
82·10 B CIA 58°-62°
85·00 B CIA 78°
88·50 B CIA 62°

MINERALISATION

½ to 1% dissem.
Py as very
fine grains and
aggregates.
Trace Po ?
AU. Syngenetic?
Py → altered to Po?
or
Py. ← Po
Best visible
concentrations
in sandstone
units
Rare qtz carb veins
upto 2cms.

PERCENT MINERALISATION

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 43

LOGGED BY .... FROM .... TO .... DATE / / PAGE 6 OF 29

42218

103.80-90.0 92.35-50 bdcia .88.50'

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERAL
					90.0	See previous page.					
					92.0	92.35 - 92.50. BEDDING FACES EAST.			FACING UP HOLE	See previous page.	
						93.35 - 93.50. 15.cm. graded. pale grey grit band GRADES UP HOLE			93.50. B. CIA 68°		
					94.0		1 - 3% calcite veining & fracture infillings				
					96.0				V. CIA. 60° // to bedding	95.70 4cm Qtz/Sid Sp/Ga vein 30% sulphide	
					98.0				98.00 B.C.A 59°.		
					100.0						
					102.0						
					104.0	103.80 - 103.90. 10cm. Multiply graded pale grey grit band.			FACING UP HOLE. 104.00 B. CIA 62°		
					105.0.						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

LOGGED BY .... FROM .... TO .... DATE / / PAGE 8 OF 29.

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERALS
					105.0	See previous page					
					106.0	106.30 – 107.30. Weak BRECCIA/FAULT ZONE with subsequent emplacement of siderite, sphalerite galena - followed by re-brecciation and infilling of white qtz +aspy (cp. py)			106.80 V. CIA 60° // to bedding	106.30-107.30 1.0m. Breccia/Vein Zone. 2% Aspy Sp. Ga Py.	
					108.0					108-50. Aggregate of dislocated qtz vein +above sulphi	
					110.0	110.10 – 110.15. 15cms. coarse GRIT BAND/LENSE.	3-5% calcite & some siderite infilling pores. // to and cross cutting bedding		110.15 B. CIA 65° GRADES UP HOLE		
					112.0						
					114.0				114.0 B. CIA 63°		
					116.0				116.30 C. CIA 53° // to bedding	116.30 30cm. Qtz siderite vein - low sulphide. Brecciated on upper contact & late siderite phase	
					118.0						
					120.0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

LOGGED BY .... FROM .... TO .... DATE / / PAGE 9 OF 29

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERC. MINERA.
					120.0 122.0 124.0 126.0 128.0 130.0	Grey banded calc pelites as before but succession becoming finer grained and less calcareous. Porous calcareous. Sandstone horizons are much narrower. (20m-10.0m thick). Siltstones & fine grained sandstones? dominant - ends 122.0 thereafter Predom. ss with rare calc. pelite Reduced disseminated Sulphide component parallels overall reduction in sediment grain size - less porous	3-5% calcite & minor siderite infilling fractures		124.0 V. CIA 52° 124.90 B. CIA 65° 126.60 V. CIA's 45°-55° 130.50 B. CIA 40°	Trace to 1% dissem. Py (Po) Sporadic (<5.0cms) narrow Qtz Carb. veins + Py. Trace Sp/Ga 124.0 – 126.60 130.30 – 132.30 134.70 – 135.90	
					132.0 134.0 135.0	132.0 – 139.0 Fractured, laminated/flaggy. gray and dark grey to black f.gr. tuff, ss & sh. locally calcareous.	1-3%. free Calcite		132.50 B. CIA 45° Dislocated	2-3% dissem. & free Py.	

SCALE 1:100 (1cm = 1 m)

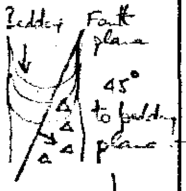
COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE43

LOGGED BY .... FROM .... TO .... DATE / / PAGE 10 OF 29

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	STRUCTURE	MINERALISATION
					135.0 136.0	↓ increasing fracture intensity – (broken core)		increasing dislocation and fracturing	ditto
					138.0	137.0 – 139.90. Comminution zone – FAULT BRECCIA rather than sed. slump texture – jumble of angular banded calcs/sh. clasts.	1-3% calcite veins + frac. infillings	139.0. –139.80 B.CIA 0–10° dragged disloc. bedding parallel to core axis. Bedding Fault plane 45° to bedding plane	ditto –139.90
					140.0 142.0	139.90 – 142.30 Laminated/flaggy grey to dark grey CALCAREOUS f. to m. grained tuffs and calc. sh. grades into calc. Tuffs or Basalt below.		139.90· Fault CIA 38° 140.0 B.CIA 50° 141.0 B. CIA 50° Slates 60-70° dips 30-40°	3-4% dissem. and frac. Po/Py.
					144.0 146.0 148.0 150.0	142.30 – Cream grey massive CALCAREOUS m. to c. gr. TUFFACEOUS SANDST. or carbonated BASALT – lacks obvious bedding or graded features. Irregular streaks + lenses of dark grey to black material may represent relict deformed sedimentary layers of tuffaceous siltstone + shale occurring in sed. basin between basic flows. Some narrow zones of slump/flow brecciation? Intersection exhibits high degree of fracturing – compressional deformation?	Carbonatisation Chloritisation Mottling 5-10% calcite (qtz) healed fractures and dislocation zones. Locally 15-20%. Sweated CaCO3 from matrix?	142.40 V. CIA. 45° –144.40 V. CIA. 35°. Strong overall fracturing – dislocation	142.40 35cm qtz carb. vein – vuggy – late qtz phase – stepping initial qtz carb. vn. –144.40 10cm. sheeted qtz +py Po vein Sporadic qtz siderite sp, ga, and qtz as py, Po + py veinlets Late barren white qtz/carb. veins + veinlets cut above veins + calcite frac. infillings.



SCALE 1:100 (1cm = 1 m)

422191

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

LOGGED BY .... FROM .... TO .... DATE / / PAGE 11 OF 29.

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERC MINERAL
					150.0						
					151.0	Massive green grey Calc. Tuff as before.	Possible development of weak hornfelsing			Trace dissem py as discrete grains + aggregates - essentially barren.	
					152.0						
					1						
					154.0						
					156.0						
					158.0				159.80 B. CIA 55°.		
							159.50 PET.				
					160.0						
					162.0						
					164.0						
					165.0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

LOGGED BY .... FROM .... TO .... DATE / / PAGE 12 OF 29

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERC MINERA
					105.0						
					166.0	Massive green grey calc. tuff persists					
					168.0						
									169.35. V. C/A · U. 55° L. 60°	169.35 2cm. Q/z siderite vein - barren	
					170.0		5%				
					172.0						
					174.0						
					176.0						
					178.0						
						179.0. 10cm of weak CONGLOMERATE a few grey + white subangular clasts of chert. 3-10mm long.					
					180.0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

LOGGED BY .... FROM .... TO .... DATE / / PAGE 13 OF 29

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERC. MINERAL.
					180.0						
									181.20 B. o CA 35°		
					182.0						
							5%				
					184.0						
					186.0						
					188.0						
					190.0						
									191.40 V. C/A 75°	191.40 2cm. Qtz Siderite vn 2-3% Ga. Sp. Py Cp. weak [illegible]	
					192.0						
						192.45 BASALT – GABBRO? (PYROXENITE?) interface – complex textural interrelationships – flow/intrusive brecciation? Fine grained + granular facies etc.	CARBONATE (weak talc) CHLORITISATION?		192.45. V. C/A 50° Weak shearing / foliation, brecciation and slickensides visible	192.45. 15cm. Qtz Siderite vn. Trace sulphides.	
										193.70 – 194.0 3 veins 0.5 – 2.0cm. 2 qtz sid + sp/ga. 1 qtz + pocy. ga sp. cpy. latter at 90° to former	
					194.0				194.0 → V. C/A's 40° + 25° 90° between flag. 40° – 25°		
					195.0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE43

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DRILL ADVANCE					LITHOLOGY						
LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERALISATION
					195.0						
					196.0		+10% calcite w filling fracs & veins				
					198.0	197.45.— Pale grey green and creamy light pinkish brown mottled (spotted) altered (carbonated.) allotriomorphic granular. Pyroxenite/Gabbro. Remnant clusters/aggregates of dark green euhedral pyroxene.—creating spotted appearance. Bulk of pyroxene altered to pale green & cream mineral ↓ gradual conversion to TALC.	Carbonated		197.45 V. CIA 32° weak foliation at start.	—197.45 25cm Qz Sid. v 5-10% Po Cp. Ga Sp.	
					200.0		No remnant magnetite.				
					202.0		3-5% frac fill calcite			Essentially barren - rare specks of Py/Cp?	
					204.0						
					206.0	206.30. Weakly foliated (sheared) TALC CARBONATE.	206.30 Strongly carbonated. cream/pale pinkish zone with a few stringers of talc.				
					208.0						
					210.0						

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE43

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DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
					210.0					
						211.0. Pale gray soapy. foliated & sheared. Talc carbonate grading into ↓.			211.20 Shear/fol. CIA 40°-50°	Rare stringers of Po.
					212.0	212.40 - 213.20. Dark green/black sheared SERPENTINITE terminating in 10 cm. basic [illegible].			213.10 V. CIA 60°	213.10 10cm. Carb/qtz vi 20% Sp, Ga, Py. (vuggy - late Py.)
						213.20 - 214.10 Dark gray to black sheared. GRAPHITIC SHALE. with pellets + lenses of gray green m. to c. gr. pyrite tuffaceous sandstone.	1-3% calcite frac. infillings			
					214.0					
					216.0			SEP. →	216.30 B. CIA. 45°	Rare grains of Py.
						214.10 - 219.20. Gray to pale gray + green banded foliated TALC CARB. grading into — ↓			218.0 Shear/fol. CIA 45°	
					218.0					
						219.20 - 224.40 Dirty dark grey green. sheared. SERPENTINITE incipiently altered to talc carb. (alternating bands of dark green serpentinite and grey talc carb.) Grades down into ↓s. sheared serpentinised spotted. unit - with high Magnetite content - arbitrary contact at 224.40	1-2% ? Mag. (mod. response) ↓ increasing Mag. content		219.80 Shear/fol. CIA 35°	
					220.0					
					222.0				222.0 Shear/fol. 45°-55°	
					224.0					
						224.40 - 242.60 Dark green to black competent white spotted - incipiently.				
					225.0					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

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LITHOLOGY

DRILL ADVANCE LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
					225.0	serpentinised PYROXENITE?				
					226.0	Less obviously sheared – weak foliation visible. Large (2-3cm diam.) clots, crystal aggregates and stringers of magnetite (Magnetic susceptibilities range from 3.3 – 7.5 with peak of 24.0)	Insipiently. Serpentinisation and. minor talc carbonate development.		Moderate to weak foliation/ shear features	Rare Po as very fine frac. infillings Very weak. developement of narrow. <5mm chrysotile fibres C/A.'s 40° and 80°
					228.0					
					230.0				230.80 Fol. C/A. 45°	
					232.0	At 232.0 less serpentinised zone – granoblastic mafic tex's visible.				
					234.0		3.8. Mag. susceptibility.			
					236.0		8.8		236.0 Fol. C/A 45°	
					238.0		3.5.			
					240.0		4.5			

SCALE 1:100 (1cm = 1 m)

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COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

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DRILL ADVANCE

LOST CORE | DEPTH | DRILL ADVANCE INTERVAL | CORE RECOVERY | PERCENT RECOVERY

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCE MINERALI
240.0		4.5.		Increased Shearing foliation intensity	Essentially barren.	
241.0	Transition zone / contact Insipiently serpentinised/altered pyroxenite/basalt and/or seds.	1.1 0.4 0.1		–241.0. Fol. CIA 55°	Rare Po.	
242.0	242.60 – 245.10 Pale green grey fine gr. massive dislocated (with resulting fracs infilled with talc) m. gr. TUFFACEOUS SANDSTONE OR. BASALT.	0.2 0.2 Talc infilling fractures; minor calcite		–243.90. Possible relict bedding CIA 65° exhibited by parting of black shale?	Barren.	
244.0		0.2		–245.10 ↳ B. CIA 45° (SHALE)		
246.0	245.10 HORNFELSED banded mixed black graphitic shale exhibiting pellet texture (inclusions of tusa); grey & grey green fine gr. tuffaceous sandstone & siltstone; – some units strongly calcareous. (246.40 – 247.95 grey calc. pelite)	0.2 START of HORNFELSING	CALC PELITE		Sporadic veins + clots of Po(cp) locally upto 5%.	
248.0	Grades down into massive grey green / dark purplish brown units of Tusa and siltstone with partings of black shale and black pyritic shale and siltstone frequently exhibiting zones of pellet texture – sed. slump breccias and possibly lithic wackes with predom. shaley matrix Composition of clasts mainly tusa some vein qtz + Po/Py clasts. (in situ growth?)	2-3% calcite infilling irreg fractures.		–248.80 B. CIA. 40°	Upto 2% dissem py. as aggregates and discrete x's.	
250.0				–251.0 B. CIA. 50°		
252.0						
254.0				–254.40 B. CIA 45°		
255.0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

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DRILL ADVANCE

LITHOLOGY

UC = upper contact C/A
LC = lower contact C/A
V = vein C/A.

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERALISATION
					255.0	Units of Tusc/ss upto 0.70m. thick - generally less with Intercalated lenses & seams of sh.	HORNFELSED			—	
					256.0		2-3% calcite infilling irreg fracs & veins.		256.40 B. C/A. 40°	Rare Po bearing qtz veinlets, frag small clots and aggregates	
					258.0	Interval composed approx. of: 50% Tusc/ss. 50% Black to dark grey Shale & ss.					
					260.0				260.10 B. C/A. 30-35°	Sporadic v. fine dissemination of Po.	
						(260.90 - Bedding/facing grades uphole).		CALC. SH. MATRIX	260.70 B. C/A. 43° 260.90 " " 30° 261.30 B. C/A 42°		
					262.0				262.50 B. C/A 45° (pll/sl)		
					264.0	(264.15 - 266.50. Silty greenish. grey. mottled. foliated GABBRO dyke - carbonated).		GABBRO DYKE	264.15. U.C. C/A. 48°		
									265.10 V. C/A. 15°	265.10. 3cm. Qtz/Carb.v.	
									265.60 V. C/A. 25°	265.60 1cm. Qtz/Carb.v 2.4% Cal/Sp.	
					266.0						
									267.60 V. C/A 45°	267.60 7cm. Qtz/Carb v. trace sp/py. usual breccia dislocation + satellite veinlets at margins.	
					268.0						
					270.0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH PBE43

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY

LITHOLOGY

INTERVAL

270.0
272.0
274.0
276.0
278.0
280.0
282.0
284.0
285.0

DESCRIPTION

(272.50 – 273.50 approx. breccias with CALC. MATRIX).

(274.80 – 276.35 brecc. with CALC. MATRIX)

UNIT BECOMING DOMINANTLY TUFFACEOUS SANDSTONE from 274.80

(279.45 – 280.25. Creamish grey mottled-bleached carbonated GABBRO DYKE as per 264.15. Upper contact abutts 'pellet' black shale and exhibits plastic flow/movement subsequent to emplacement i.e. aligned clasts of gabbro enclosed by shale matrix – compressional/tectonic adjustment along incompetent zone of black graphitic shale.)

↓

Increasingly arenaceous facies upto 70% of interval – variably calcareous. – weak-mod-to strong interzones of ss and sh notable.

ALTERATION

Hornfelsed

2-3% calcite infilling fracs & paralleling foliation

GRAPHIC LOG

272.50
CALC MATRIX
273.50

STRUCTURE

- 270.20 B.C/A. 60° (ss/f.g.sa)
- 272.30 B.C/A 50° (ss/sa)
- 273.90 B.C/A. 45-55°: Slumped & micro faulted sh/ss/f.g.sa.
- 275.0 B.C/A. 52° (sa)
- 276.0 B.C/A. 50° (pebbly/sa)
- 278.0 Fol. C/A. 40-45°
- 281.80 B.C/A. 40° (ss/f.g.sa)
- 283.50 B C/A 40° (ss/sa)
- 283.90 B C/A. 50° (sa)
- 284.10 B.C/A 33° ([illegible])
- 284.40 B.C/A. 45° (ss/sa)

MINERALISATION

As per previous page.

PER MINERA

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 43

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY

LITHOLOGY

INTERVAL

285.0
286.0
288.0
290.0
292.0
294.0
296.0
298.0
300.0

DESCRIPTION

294.80 continued
Variably calcareous grey green and creamy brown fine to medium grained CALCAREOUS TUFFACEOUS SANDSTONES. Interbedded narrower (<50cm) units of grey to dark grey/black sl and sh. exhibiting slumped and dislocated bedding features comprise 30% of interval.

ALTERATION

HORNFELSED.

URALITISED GABBRO DYKE → (graphitic Gr). PYROXENITE? + partings of black shale.

GRAPHIC LOG

STRUCTURE

285.60 B. CIA 46°
286.10 B. CIA 45°
286.20 B. CIA. 50°
286.50 V.C. CIA 55°. parallels bedding
288.30 L.C. CIA 43°
288.95 B. CIA. 47°
289.90 B. CIA 50°
293.05 B. CIA. 45°
295.05 B. CIA. 50° (sh/sa)
296.65. B. CIA. 40° (sh/sa)
298.10 V. CIA. 48°

MINERALISATION

287.60. Anastomosing qtz/carb. v. trace po/py.
298.10 10 cm. Qtz carb v.

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 43

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tu.sa is tuf/sa. tuffaceous sandstone

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DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
					300.0					
									301.40 B. C/A 55° (sa/sh)	
					302.0					
						303.50 — Predominantly CALCAREOUS. grey to dark grey. competent SILTSTONE unit. - upper section of pellet textured (slumped. ss/sh) + green grey weakly calc. tuf. sa.				
					304.0					
									305.30 B. C/A 50° (pell/sl)	
					306.0				306.0 V. C/A 47° 306.20. B. C/A 45° (sh/sa)	306.0 Siderite qtz vn. Δ wall rocks.
					308.0					
						from 308.80 - weakly banded. CALC. PELITES. minor narrow bands of tuf.sa.			308.80 308.90 B. C/A 55° (ss/ss)	2-3% small fine xline aggregates of pyrite - and as fracture infillings - remobilised. Syngenetic Rare Pb.
							10% calcite infilling frac.		309.95. B. C/A 50° (sa/sa)	
					310.0					
					312.0					
									312.85 B. C/A 60° (ss/ss)	
					314.0					
									314.50 B. C/A 30° (sh/ss/sa)	
					315.0					

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SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE43

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LITHOLOGY

DRILL ADVANCE LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERCENT MINERAL
					315.0						
					316.0	316.10 – 317.10 BRECCIATED BASE METAL VEIN Colebrook/Cole-Ring Fault. 317.10	Siderite formation into wall rocks as veinlets + fracture infillings.		316.10 U.C. CIA 60° Comminution of wallrocks + base metal vein + foliation FAULT ZONE approx strike 325-335°T 319.10 L.C CIA 50° (15-25° to bedding strike) 319.50 B.CIA 50° (ss/sa)		
					318.0	Pale green-grey to creamish and grey fine to medium grained indurated	HORNFELSES		318.30 B. CIA 45° (sa/ss)	319.10 – 321.0 1-2% Siderite/qtz veins + veinlets with trace to PL sp/ga. rare Po. Veins parallel core axis and at 45°	
					320.0	TUFFACEOUS SANDSTONE with lesser SILTSTONE Non-calcareous.	Sporadic metasomatic fracture infillings of actinolite/tremolite –				
					322.0	Grade down into purplish brown (haematite?) fine grained tuffaceous sandstone and siltstones.	predate siderite/qtz phase – latter often overprints + parallels former.		322.50 B. CIA. 40 to 45° (ss)		
					324.0	Creamish pale yellowish brown colour imparted to the more porous beds may reflect	< 1%		324.60 V. CIA 45° 325.30 B. CIA 60° (ss/sa)	324.60 10cm diffuse qtz actino/trem and qtz carb vein zone 1-2% sp/ga.	
					326.0		Rare calcite frac. infillings		326.90 B. CIA 60° (ss/sa)		
					328.0	a diffuse hydrothermal SIDERITIC content – (qtz carb (siderite) veins typically oxidise to rich Fe brown)			328.70 B. CIA 45° (ss) 329.15 B. CIA 52° Subhorizontal qtz vein set at 90° to bedding with shallow southerly dip.		
					330.0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 43

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DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	PERC MINERAL
					330.0		HORN FELSES. +			330.10 5cm. zone of qtz actino/trem + 10% Po with flanking qtz carb vein + sp.	
					332.0		Sporadic. qtz tremolite actinolite veins		– 331.90 B.C.A 60° – 332.50 " 60°-55°		
					334.0	334.60 – 347.60. Superbly banded / flaggy. graded rhythmically bedded.			– 334.40 " 64° – 334.60 " 60°		
					336.0	light grey, grey and dark. grey strongly CALCAREOUS tuffaceous sandstone, and			– 336.0 " 60°	5-10% clots aggregates of disseminated Py/Po; locally	
					338.0	siltstone – rare black shale.. Individual beds 0.5-10cm thick				upto 15% in coarser porous sandstone	
					340.0	Calc pelite facies dominant over sandstone to 340.0 thereafter bedding becomes.	↓ Increasing		– 340.10 " 59°	horizons. Some individual very narrow beds	
					342.0	disrupted (minor basinal. syn sedimentary tectonic disturbance) and sandstone facies	irregular calcite			(3mm) of Po and Py. (335.45. Sulphide clusters	
					344.0	dominant with narrow. irregular. lenses, beds + partings of siltstone + shale. – increasing % of calcite fracture infillings	frac. infillings and veins			flattened + aligned parallel to bedding	
					345.0						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

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DRILL ADVANCE

LOST CORE | DEPTH | DRILL ADVANCE INTERVAL | CORE RECOVERY | PERCENT RECOVERY

LITHOLOGY

INTERVAL

345.0
346.0
348.0
350.0
352.0
354.0
356.0
358.0
360.0

DESCRIPTION

347.60 –

Creamish pale yellowish brown / green / grey indurated interbedded massive TUFFACEOUS SANDSTONES. and banded SILTSTONE + f. gr. ~~s~~ tuffs – minor black shale.

↓ Unit becomes haematitic purplish brown in colour.

Approx 50% tuff
50% ss.

Narrow zones of finely bedded - laminated fine grained tuffs pale grey tuffs, dark grey ss + bands of bedded pyrrhotite replacing laminae of limestone?

ALTERATION

HORNFELSED.
INDURATED.
RARE actinolite /
Tremolite

GRAPHIC LOG

STRUCTURE

346.0 B. CIA 65°
347.60 B. CIA 55-65°
350.50 " " 52°-56°
352.60 " " 55°
355.0
355.80 " " 44°
356.70 " " 60°
357.20
358.0 " " 60°
358.30 " " 45°
358.50 " " 55°

Oriented core. (orientation; N-S. strike) indicates infra/formational/ folding of small.
wave length. bedding plane. waves through 40° – clockwise / minor fault displac?

MINERALISATION

1-3% dissem. fracture, bedded vein, clots + aggregates of Po/Py. – locally upto 5-10%.

Qtz/Po veins (1.0cm) strike approx. 70° and dips vertically or steep SE

Bulk of Py. concentrated along bedding (syngenetic?)
Po more random

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

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V = echelon/tension po qtz vns, <1.0cm thick,

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	STRUCTURE	MINERALISATION
360.0	See Previous Page.		360.20 B. C.A 45°	See previous page.
362.0				
			362.90 V " 25° at 90° to B	362.90 2cm. Qtz Po + Carb.
364.0				
			365.50 V " 20° at 90° to B	365.50 3cm Qtz Carb vn
366.0			366.10 B " 51° V " 20° at 90° to B	366.10 0.5cm Qtz Po + Carb
368.0		368.80 – 369.80 50% Qtz altn. Po veining guide fill.		
370.0				
372.0			372.70 B. C.A. 52°-55°	
	Siltstone + f.gr. sa. becoming dominant facies 60–70%	373.50 altn/trn po.		
374.0	Zone of good Pyrrhotite banding parallel to bedding with intervening lenticular clots		374.70 V. C.A 15° at 90° to B	374.70 2cm. Qtz Po + Carb. + Sp vn.
375.0				

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY

LITHOLOGY

INTERVAL

375.0
376.0
378.0
380.0
382.0
384.0
386.0
388.0
390.0

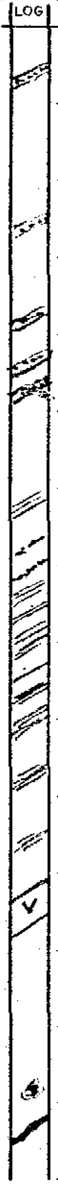
DESCRIPTION

381.0 – 386.0
Zone with narrow bands of laminated f.gr. sa + ss with laminae of py: bands av. 5-10cm thick with high py/po content - bulk of sulphide is py. (Syngenetic ?).

ALTERATION

375.60
377.90
378.80
379.40
379.70

GRAPHIC LOG



STRUCTURE

376.30 B. C.A. 50 + 52°
378.80 " " 52°
380.10 " " 47°
380.90 " " 49°
383.0 B " " 57°
384.40 V C.A 22° 90° LB.
s(?)k appr. 70°
Steep dip ... vert.
386.10 V. C.A. U. 54°
L. 44°
390.0 B. C.A 50°

MINERALISATION

Po concentrated. narrow (5-10cm). in laminated bands or partings of tusa.
384.40 2cm Qtz Po Py carb v
386.0 60cm. Qtz sid... vein zone. 1-2% Sp

PERCENT MINERAL...

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

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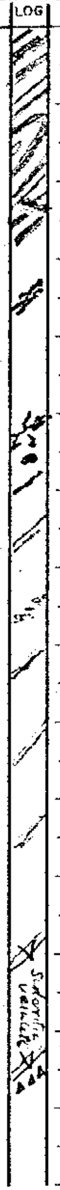
DRILL ADVANCE

LITHOLOGY



LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	STRUCTURE	MINERALISATION	PERC. MINERALS
					390.0	390.0 laminated grey f. gr. Cuso and grey ss. minor calc. pdite ?				
								390.60 B. C.A 62°		
					392.0					
						393.0				
					394.0					
					396.0	396.0 weakly laminate				
								396.70 B. C.A. 55°		
								397.40 B. C.A 48°	397.40 1cm. dissem py. bed	
					398.0					
								398.60 B. C.A. 50°		
					400.0					
						400.50				
					402.0			401.90 V. C.A 47° // to bedding	401.90 20cm siderite/qtz vn + py. trace sph	
								403.30 V. C.A. 48°	403.30. 20cm ditto. 1-2% agg-? brecciated	
					404.0					
					405.0					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE43

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DRILL ADVANCE				LITHOLOGY						
DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
				405.0		↓ decrease in frequency of Po actinolite/tremolite veins & fracture fillings < 1%.			405.50 ↓ decrease in Py/Po content. ± 1%. ↓	
				406.0				406.10 B. CIA 60°		
				408.0					408.50 < 1%.	
				410.0						
					411.20 Micro fault plane.		F. B A B A	411.20 50 mm Breccia Zone Δ at right angles to bedding. Calcite matrix - strike N-S dip W.		
				412.0				413.90 B. CIA 52°	412.60. 2cm qtz carb. vein + py. V. CIA. 20° Sub // to bedding	
				414.0						
				416.0				417.20. B. CIA 60° B		
				418.0 EOH.	418.0 ends in haematitic brown ss. facies with int. calcited greenish grey [illegible]			418.0 approx COD measurement on mirror image of last run suggests strike just west of north and dip 65°-70° East.	COD = CORE ORIENTATION DEVICE.	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH REED 3

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
10·65																
	BLD	170		30	200	6·5	BLD	BLD	135							
13·70																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 0m TO 15m DATE 23 /11/82 PAGE 1 OF 28

422211

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	115		20	195	5.5	BLD	I/S	120							
18·30	BLD	125		20	210	5.0	BLD	I/S	110							
21·80	BLD	105		10	180	6·5	BLD	BLD	125							
25·70	BLD	95		15	130	BLD	BLD	BLD	125							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 15m TO 30m DATE 23/11/82 PAGE 2 OF 28

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422212

METRES	Sn	Cu	W	Pb	Zn	Ag	AS	Au	Ni	SG						SAMPLE NUMBER
30.10																
	BLD	125		15	180	1.0	BLD	BLD	120							
35.50																
	BLD	120		20	180	3.5	BLD	I/S	110							
39.30																
	BLD	135		15	165	2.0	1	I/S	115							
43m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 30m TO 45m DATE 23/11/82 PAGE 3 OF 28

422213

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S G						SAMPLE NUMBER
	7	105		15	145	BLD	10	BLD	120							
46.90	5	45		15	130	BLD	1	BLD	110							
52 m	BLD	30		20	120	BLD	BLD	I/S	100							
54.80	22	35		15	165	BLD	BLD	I/S	105							
57m	7	40		10	120	0.5	1	BLD	90							
60m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY Analabs FROM 45m TO 60m DATE 23/11/82 PAGE 4 OF 28

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422214

60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	52	30		75	240	1.0	16	BLD	100							
62.20	8	210		415	670	7.0	61	I/S	105							
65.20	12	145		90	275	3.5	28	I/S	75							
69.10	13	30		35	325	0.5	1	BLD	100							
72.90	4	105		15	160	1.0	1	I/S	105							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY Analabs FROM 60m TO 75 m DATE 23/11/82 PAGE 5 OF 28

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422215

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
76m	BLD	130		30	135	4.0	30	I/S	75							
78.70	BLD	95		35	115	0.5	100	I/S	65							
81.80	BLD	90		30	135	1.0	49	BLD	60							
85.90	BLD	95		40	135	1.5	240	I/S	65							
89m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 75m TO 90m DATE 23/11/82 PAGE 6 OF 28

422216

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	115		15	105	1.0	27	I/S	75							
93.20	BLD	115		3100	2450	4.5	190	BLD	65							
98.70	8	90		105	250	2.0	73	BLD	65							
103m	96	115		705	1300	2.0	5300	BLD	70							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 90m TO 105m DATE 23/11/82 PAGE 7 OF 28

422217

	METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
105																	
106																	
107	106.80																
108																	
109																	
110		83	95		690	1700	7.5	2400	BLD	65							
111																	
112																	
113																	
114	113.80																
115																	
116		6	100		70	370	3.0	230	BLD	70							
117																	
118	117.80																
119																	
120																	

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 105m TO 120m DATE 23/11/82 PAGE 8 OF 28

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422218

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	35	105		175	375	2.5	130	BLD	70							
121.60	32	110		455	1250	4.5	100	BLD	60							
125.50	29	290		520	720	4.0	230	BLD	105							
129.30	34	110		1150	1350	2.0	50	BLD	60							
135 m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 105 m TO 120m DATE 7/1/83 PAGE 9 OF 28

422219

135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	10	90		120	205	0.5	300	BLD	65							
139.80	12	90		325	1200	4.5	1000	BLD	115							
143.30	32	505		300	485	3.0	4600	BLD	245							
145.40	13	210		25	140	BLD	1000	BLD	85							
148m	10	115		65	150	BLD	56	BLD	80							

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 43

ASSAYED BY Analabs FROM 135m TO 150m DATE 7/3/83 PAGE 10 OF 28

422220

150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S G.						SAMPLE NUMBER
151m	6	160		160	345	BLD	44	BLD	80							
154m	5	130		15	125	0.5	22	BLD	90							
157m	BLD	85		30	130	BLD	11	I/S	90							
160m	44	130		380	1050	2.0	56	BLD	80							
162·80	8	95		40	125	BLD	6	BLD	90							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 150m TO 165m DATE 10/1/83 PAGE 11 OF 28

422221

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
165·80	BLD	105		20	110	BLD	4	BLD	95							
168·90	BLD	80		300	1150	0·5	52	BLD	90							
172 m	7	90		195	340	0·5	23	BLD	100							
174·60	4	155		110	350	BLD	15	BLD	75							
177·80	BLD	145		20	125	BLD	BLD	BLD	85							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 165m TO 180m DATE 10/11/83 PAGE 12 OF 28

422222

	METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S G						SAMPLE NUMBER
180																	
181 182 183	180·90	BLD	145		50	150	BLD	12	BLD	90							
184 185 186	184 m	5	145		75	280	BLD	11	BLD	90							
187 188 189	187 m	BLD	150		30	130	BLD	3	BLD	85							
190 191 192	190 m	27	65		840	1700	0·5	57	BLD	120							
193 194 195	193 m	23	75		325	445	2·5	60	BLD	100							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY Analabs FROM 180m TO 195m DATE 10/11/83 PAGE 13 OF 28

195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
196m	24	210		220	1650	0.5	270	BLD	75							
199m	BLD	30		25	70	BLD	7	BLD	125							
202m	BLD	30		15	65	BLD	BLD	BLD	135							
205m	BLD	10		140	270	BLD	20	BLD	130							
208m	5	10		110	245	BLD	22	BLD	175							
209.40																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RGE 43

ASSAYED BY ANALABS FROM 195m TO 210m DATE 10/11/83 PAGE 14 OF 28

422224

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	12	40		90	65	BLD	28	BLD	1200							
212.50	7	80		455	1300	0.5	220	BLD	300							
216.80	9	5		25	120	BLD	270	BLD	1350							
219.90	BLD	5		30	120	1.0	11	BLD	1900							
222.90	BLD	5		15	110	BLD	10	BLD	1450							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 210m TO 225 m DATE 10/11/83 PAGE 15 OF 28

422225

225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
226m	BLD	5		20	115	BLD	BLD	I/S	1900							
229m	BLD	5		10	125	BLD	BLD	BLD	1550							
231·80	BLD	5		20	95	BLD	BLD	BLD	1400							
234·80	BLD	15		10	130	BLD	BLD	BLD	2000							
237·80	6	5		35	110	BLD	BLD	BLD	2100							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 225m TO 240m DATE 10/1/83 PAGE 16 OF 28

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422226

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
240·60	6	10		20	105	BLD	13	BLD	910							
243·70	8	100		45	235	BLD	11	BLD	220							
246·80	5	135		25	210	BLD	4	BLD	110							
249·90	10	100		15	200	BLD	18	BLD	115							
253m	BLD	85		15	170	BLD	13	BLD	105							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 240m TO 255m DATE 10/1/83 PAGE 17 OF 28

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422227

METRES	Sn	Cu	W	Pb	Zn	Ag	AS	Au	Ni	SG						SAMPLE NUMBER
256m	BLD	100		20	185	0.5	13	BLD	110							
259m	4	90		20	215	BLD	15	BLD	120							
262m	5	105		115	195	0.5	73	BLD	275							
265m	27	145		4600	750	6.0	1000	BLD	455							
267.60	16	115		235	395	1.5	980	BLD	125							

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COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 255 TO 270 DATE 10/1/83 PAGE 18 OF 28

422228

270 271 272 273 274 275 276 277 278 279 260 281 262 283 284 285

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
270·70	11	65		20	105	0.5	69	BLD	115							
273·60	10	110		40	230	BLD	28	BLD	120							
276·70	8	75		25	180	BLD	44	BLD	415							
278·80	4	175		15	200	BLD	73	BLD	630							
280m	19	50		85	500	BLD	40	BLD	210							
282·30	4	50		30	175	BLD	42	BLD	95							
284·60																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 270 TO 285m DATE 10/1/83 PAGE 19 OF 28

422229

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	20	305		275	410	BLD	52	BLD	85							
287.60	BLD	190		20	570	BLD	22	BLD	105							
290.70	11	100		30	310	BLD	23	BLD	145							
293.80	5	80		15	150	BLD	21	BLD	120							
296.90	BLD	100		5	150	0.5	17	BLD	130							
300 m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 285m TO 300m DATE 10/1/83 PAGE 20 OF 28

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG.						SAMPLE NUMBER
	4	105		5	175	BLD	16	BLD	145							
303 m	16	100		105	390	BLD	72	BLD	130							
306 m	14	110		230	730	4.0	82	BLD	140							
309 m	9	100		55	230	1.5	170	BLD	80							
312 m	10	90		20	260	1.0	68	BLD	65							
315 m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 300m TO 315m DATE 10/1/83 PAGE 21 OF 28

422231

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
315 m	45	150		345	715	2.0	1000		130					Split Core	↓	Z 0945
315.80	120	100		2050	3200	3.0	540		135							20946
316.10	450	215		1.17% *	4.36% *	33 *	6400		145				By method 104			20947
317.10	95	35		685	3400	2.5	290		105							20948
317.50	95	330		1250	2450	5.0	280		170					Split Core	↑	20949
317.85	84	55		775	1650	2.0	130	BLD	120							
321 m	BLD	50		115	300	0.5	33	0.1	120							
324 m	18	50		600	1650	1.5	75	BLD	115							
327 m	76	45		145	290	BLD	240	0.1	140							
330 m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY Analabs FROM 315m TO 330m DATE 10 / 11 / 83 PAGE 22 OF 28

422232

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
330 m	51	90		170	470	BLD	62	0.1	130							
333 m	22	100		15	140	BLD	30	BLD	95							
334.70	8	80		85	230	BLD	19	BLD	90							
337 m	BLD	55		55	130	BLD	42	BLD	75							
340 m	BLD	40		35	100	BLD	14	BLD	65							
343 m	BLD	55		40	190	0.5	13	0.1	75							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 330 m TO 345 m DATE 10/1/83 PAGE 23 OF 28

422233

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
346 m	19	70		850	1700	3.0	170	0.1	95							
349 m	37	130		65	310	BLD	170	0.1	125							
352 m	31	170		100	320	BLD	86	0.1	100							
355 m	9	190		30	170	BLD	32	BLD	100							
358 m	12	135		25	120	BLD	170	0.1	90							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 345m TO 360 DATE 10/1/83 PAGE 24 OF 28

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422234

360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S G.						SAMPLE NUMBER
361 m	24	150		80	250	BLD	54	BLD	105							
362.50	26	220		300	210	5.5	300	BLD	130							
365.50	21	215		55	220	1.0	40	BLD	100							
368 m	12	110		10	110	BLD	63	BLD	110							
370 m	5	80		5	115	1.5	37	BLD	125							
373 m	27	315		690	2450	2.0	400	BLD	105							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 360 TO 375 DATE 10/11/83 PAGE 25 OF 28

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422235

375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG							SAMPLE NUMBER
376 m	22	250		20	110	4·5	34	BLD	115								
379 m	14	230		15	100	3·5	30	BLD	110								
382 m	28	265		15	100	1·0	54	BLD	110								
385 m	50	230		505	2000	8·5	540	0·1	85								
388 m	28	270		15	230	BLD	27	BLD	100								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 375 TO 390 DATE 10/1/83 PAGE 26 OF 28

422236

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
391 m	46	160		20	115	0·5	100	BLD	120							
394 m	22	190		35	190	BLD	50	BLD	150							
399 m	16	180		10	140	BLD	61	BLD	115							
400 m	15	195		420	740	1·5	210	BLD	105							
403 m	32	125		685	3150	5·0	210	BLD	100							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RbE 43

ASSAYED BY Analabs FROM 390m TO 405m DATE 10/1/83 PAGE 27 OF 28

422237

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S.G.						SAMPLE NUMBER
406m	15	165		25	200	BLD	34	BLD	120							
409m	27	80		15	150	BLD	64	BLD	110							
412m	13	170		70	260	BLD	40	BLD	115							
415m	103	60		BLD	120	BLD	63	BLD	110							
418m	EOH															

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 43

ASSAYED BY ANALABS FROM 405m TO 420m DATE 10/1/83 PAGE 28 OF 28

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422238

DRILLHOLE LOG
R.B.E. 44

LOST CORE	DRILL ADVANCE DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	LITHOLOGY INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					0	0 → 35.0 TRICONED.					
					15.0						

SCALE 1:100 (1cm = 1m)

422239

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 44

LOGGED BY .... FROM .... TO .... DATE ../../.. PAGE 1 OF 35

DRILL ADVANCE					LITHOLOGY						
LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					15.0	TRICONED.					
					30.0.						

SCALE 1:100 (1cm = 1 m)

422240

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 44

LOGGED BY .... FROM .... TO .... DATE ../../.. PAGE 2 OF 35

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					30.0	0 – 35.0 TRICONED.					
	35.00	2.00	0.85	42.5	35.0	Deeply weathered. fragmented white to creamish + green mottled. ultrabasic (pyroxenite?) or gabbro. Rare veins, veinlets + narrow zones of quartz siderite.	Deeply weathered. oxidised zone.				
					36.0						
	37.00	3.00	2.60	86.6	37.0						
					38.0						
					39.0						
	40.00	3.00	2.60	86.6	40.0						
					41.0						
					42.0						
	43.00	3.00	2.70	90	43.0						
					44.0						
					45.0						

SCALE 1:100 (1cm = 1 m)

422241

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RGE 44

LOGGED BY S.R YARDLEY FROM 30.0 TO 45.0 DATE / / PAGE 3 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	46.00	3.00	2.80	93.3
	49.00	2.60	2.15	82.6
	51.60	2.70	2.20	81.4
	54.30	2.70	2.50	92.5
	57.20	2.60	1.60	61.5
	59.80	1.20	1.36	112.5

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
45.0						
46.0						
47.0						
48.0						
49.0						
50.0						
51.0						
52.0						
53.0					5290 · 20cm siderite impreg. 3mm.	
54.0						
55.0						
56.0						
57.0						
58.0						
59.0						
60.0						

SCALE 1:100 (1cm = 1 m)

422242

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE44

LOGGED BY S R YARDLEY FROM 45.0 TO 60.0 DATE / / PAGE 4 OF 35

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	61.0	3.00	2.20	73.3
	64.0	1.60	1.00	62.5
	65.60	1.40	0.60	36.7
	67.00	0.40	0.30	75
	67.40	0.40	0.10	25
	67.80	0.50	0.40	80
	68.30	1.60	1.30	81.2
	69.90	0.60	0.55	91.6
	70.50	1.00	0.40	40
	71.50	0.50	0.35	70
	72.00	1.00	0.50	50
	73.00	3.00	2.80	93.3

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
60.0 – 61.0	See page. 1				61.0 · 60cm. Siderite impreg zone	
63.0					63.30 · 50 cm. Siderite impreg. zone.	
64.0	64.0 - 66.70 Insipiently SERPENTINISED ZONE. Fragmented	SERP.				
66.70	66.70. Insipiently silicified pale grey TALC CARBONATE - vuggy foliated. - Weak. qtz/Carb veinlets ± 1% Sp. trace Ga. Core very broken. Some areas of serpentinite Core? At 69.40. - Tc. heavily stoped by massive white vein qtz to 70.50.	TALCOSE	69.40 70.50	- 68.0 V. CIA 60° - 69.0 Fol. CIA 62°	68.0 1.0cm qtz/Carb/Sp. vein Trace Cp. assoc. with white vuggy qtz stoping Tc.	
70.50 – 75	- 70.50 - 75.90 Insipiently serpentinised sheared. pyroxenite? gabbro minor Talc	SERPENTINIS-ATION		- 70.50 Some. narrow comminution zones CIA 65°	70.50 Sporadic sp + ga. 10 - 15%. Siderite/qtz stockwork infilling dislocation fractures	

SCALE 1:100 (1cm = 1 m)

422243

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBZ 44

LOGGED BY S R YARDLEY FROM 60.0 TO 75.0 DATE / / PAGE 5 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE (INTERVAL)	CORE RECOVERY	PERCENT RECOVERY
	76.00	3.00	2.90	96.6
	79.00	3.00	2.96	98.3
	82.00	3.00	3.10	103.3
	85.00	3.00	3.00	100
	88.00	3.00	3.00	100

LITHOLOGY

INTERVAL: 75.0, 76.0, 77.0, 78.0, 79.0, 80.0, 81.0, 82.0, 83.0, 84.0, 85.0, 86.0, 87.0, 88.0, 89.0, 90.0

DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
Gabbro contaminated with black shale			75.60 Fol. CIA 45°	Trace chrysotile f.	
76.90 – 80.95 __Mixed sediments__ – highly disturbed – sheared along beds of black shale; tuff + ss units tend to be dislocated rather than displaced. From 78.10 – 79.35 alternating regular + irregular (stretched) bands of light grey tuff/calc ss. and charcoal grey calc. ss. (approx 10 cm thick)	10%-15% Calcite fracs. infillings + veins	78.9 80.2	78.70 B. CIA 47° 78.95 B. CIA 50° 79.10 " " 57° 79.20 " " 34° 79.50 " " 50°	2-3% dissem. aggreg + frac py.	
80.95 – 83.70 Green-grey granular, slightly altered gabbro dyke, with irregular random partings + inclusions of black graphitic shale. 5°	5% Calcite veins + frac. infillings. Uralitized		80.95 " " 47° Contact // to bedding		
83.70 – 93.20 MASSIVE greenish grey, medium gr. TUFFACEOUS SANDSTONE. Exhibits weak graded + cyclic bedding. Approx. 5-10% angular & subangular quartz frags up to 1mm diam. Rare reddish chert frags. Very rare partings of shale.	2-3% calcite/qtz veins + frac infillings		83.90 B/a CIA 45° 85.60 B. CIA 25-35° Slick. " " 40° (// to B) 89.30 B. CIA 25°	Trace py. associated with calc veins	422244

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE44

LOGGED BY S R YARDLEY FROM 75.0 TO 90.0 DATE / / PAGE 6 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	91.00	2.60	2.60	100
	93.60	3.10	3.15	101.6
	96.70	2.70	2.75	101.8
	99.40	0.90	0.95	105.5
	100.30	0.90	0.50	56.5
	101.20	1.80	1.40	77.7
	103.00	1.70	1.70	100
	104.70	1.30	1.35	103.8

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
90.0 – 93.0	Sc					
93.20 – 99.90	Darkish green-grey coarse grained anhedral partially weathered and chloritised Pyroxenite ?/Gabbro. contaminated with 10-15% angular to subangular inclusions of black graphitic shale? (3-6mm. diam).	10% white qtz/calcite veining at upper contact - weak elsewhere. + partially leached. + oxidised - trace limonite		93.90 V. CIA 40°	93.90 . 7cm calcite/qtz vn. Trace dissem py (cp?)	
99.90 –	Charcoal grey. pyritic graphitic Shale - vuggy and limonitic in part - leached calcite pores Although fairly broken in places, exhibits competant rather than platey texture. Some soft-sed def features + 'pellet' textures Minor bands of grey tuff/ss.	partially oxidised pores & veins plus leaching of calcite		101.30 B. CIA 30°(sa) 104.30 B. CIA 32° (sa)	2-3% dissem pore & vein Py. (syn)	

422245

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE44

LOGGED BY S.R. YARDLEY FROM 90.0 TO 105.0 DATE / / PAGE 7 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	106.00	2.60	2.65	102
	108.50	1.60	1.60	100
	110.10	1.50	1.40	93.3
	111.60	1.30	1.10	84.6
	112.90	0.80	0.80	100
	113.70	0.40	0.30	75
	114.10	0.60	0.60	100
	114.70	1.90	1.70	89.4
	116.60	0.40	0.40	100
	117.00	0.90	0.80	88.8
	117.90	3.10	3.10	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
105.0–116.90	Shale frequency of tuff content increases towards base.			-108.50 B.CIA 50° (sh) -113.95 B. CIA 45° (sh)	2-3% dissem. frac. + vein py. (syn)	
116.90	116.90 Massive and banded in part graded. greenish grey + grey TUFFACEOUS SANDSTONE with some interbedded horizons of ss + pellet tuff sh. with ssd. features + 60% TUSA overall.	End of leaching + trace. oxidation -118.60 - END OXID ZONE	▨	- 119.50 B. CIA 45° (ss/sh)		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE44

LOGGED BY S R YARDLEY FROM 105.0 TO 120.0 DATE / / PAGE 8 OF 35

422246

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	121.00	3.00	3.00	100
	124.00	3.00	3.15	105
	127.00	3.00	3.00	100
	130.00	3.00	2.85	95
	133.00	3.00	3.10	103

LITHOLOGY

INTERVAL

120.0
121.0
122.0
123.0
124.0
125.0
126.0
127.0
128.0
129.0
130.0
131.0
132.0
133.0
134.0
135.0

SCALE 1:100 (1cm = 1 m)

DESCRIPTION

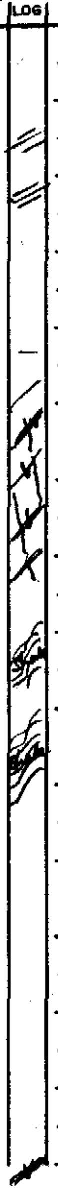
See previous page.

— 121.90 Graded sa/ss/sh. unit within predom. massive tuffs grade uphole. — <u>east facing.</u>

ALTERATION

1 - 3% calcite veining Sporadic mainly confined to Shale lenses

GRAPHIC LOG



STRUCTURE

— 121.50 B. CIA. 40°
— 121.90 " " 41°
beds facing uphole ie young to east
— 124.40 V. CIA. 47°
veins // to bedding & at right angle.
— 128.0 B. CIA 45°
— 130.0 B. CIA 46°
— 134.10 B. CIA 48°
135.0 V. CIA 54°

MINERALISATION

124.70
2.90m of 50% Qtz/Siderite veining with Traces of py sp ga
129.20
— 129.60 10cm Calcite vn
— 130.0 ditto.
— 135.0 10cm Qtz/Siderite/Fluorite vn.

VISUAL PERCENTAGE MINERALISATION

42224

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH PBE44

LOGGED BY S R YARDLEY FROM 120.0 TO 135.0 DATE / / PAGE 9 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	136.00	3.00	3.10	103
	139.00	3.00	3.00	100
	142.00	3.00	2.95	98.3
	145.00	3.00	3.00	100
	148.00	3.00	3.00	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
135.0					
136.0	Tusa.				
137.0					
138.0			138.60 B.CIA 50° (sh/sa)		
139.0					
140.0					
141.0					
142.0					
143.0			143.70 B.CIA 48° (sh./sa)		
144.0					
146.0					
146.0			146.50 . B.CIA 47° (sa/sh)		
147.0	146.90 – Pale grey + grey. irreg banded (laminated + flaggy) LIMESTONE, CALC. SANDSTONE + CALC. SILTSTONE - rare shale.	10 - 15% infilling fracs + veins	147.50 B.CIA 40°	2-3% dissem + frac Py	
148.0					
149.0					
150.0					

GRAPHIC LOG

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE44

LOGGED BY SR YARDLEY FROM 135.0 TO 150.0 DATE / / PAGE 10 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	151.00	2.50	2.55	102
	153.50	3.10	3.10	100
	156.60	3.10	3.15	101
	159.70	3.10	3.10	100
	162.80	3.20	3.10	96.8

LITHOLOGY

INTERVAL: 150.0 151.0 152.0 153.0 154.0 155.0 156.0 157.0 158.0 159.0 160.0 161.0 162.0 163.0 164.0 165.0

DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
			151.60 B.CIA 45° (mst/sh)	1% free-vein Po towards base	
152.0 — 155.40. Green grey ss/sh (baked) grading into massive indurated tuffs - c, m, + f.gr.			152.0 B.CIA 64° (mst/ss) 152.10 B.CIA 55° (ss/s.) 153.50 B.CIA 25° (sh/f.g.ss)	153.40 5 cm. sheeted Py vein - minor carb. V.CIA 30°	
155.40 - 167.20 Green grey mottled. Gabbro Dyke? 5-10% pinkish incipiently clay altered euhedral feld phenos. Some black shale partings + inclusions GABBRO DYKE	clay, chlorite altered.		155.40 ~~B. CIA 53°~~ undulating contact	Trace dissem. Py.	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE44

LOGGED BY S R YARDLEY FROM 150.0 TO 165.0 DATE / / PAGE 11 OF 35

422249

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	166.00	3.00	2.90	96.6
	169.00	3.00	3.15	105
	172.00	3.00	3.00	100
	175.00	3.00	3.05	101,
	178.00	3.00	3.10	103.3

LITHOLOGY

INTERVAL: 165.0, 166.0, 167.0, 168.0, 169.0, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180

INTERVAL	DESCRIPTION	ALTERATION	STRUCTURE	MINERALISATION
167.30 – 173.40	Indurated grey green & purplish brown. ss & f.gr. tuffs with rare c.gr. bands - laminite & flaggy banding	Local contact hornfelsing Trace frac & vein action - Traces 170.6 ↓ weak partial oxid of fracs & jts: veneer of limonite 172.0 ↑	167.30 C. CIA 35-40° // to bedding 169.30. B. CIA. 40°(ss/sh) 169.90 B CIA 47° 172.0 ↓ DISLOCATED CONTACT ↑ 173.40 C CIA 45°	10-15% diss/frac Py/Po. patchy vein/frac Py/Po - some cp
173.40 – 188.70	Massive mottled green grey GABBRO DYKE as per 155.40 - 167.30. Inclusions & partings of shale particularly at upper & lower contacts	clay/chlorite Rare white calcite veins upto 2cm. thick.	Slickensiding at contacts suggests lateral movement - 176.90 V. CIA 25°	Barren. 176.90 30cm sheared Siderite/Qtz vn. V. CIA 25°

GRAPHIC LOG

VISUAL PERCENTAGE MINERALISATION

422250

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE44

LOGGED BY S R YARDLEY FROM 165.0 TO 180.0 DATE / / PAGE 12 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	181·00	3·00	3·10	103·3
	184·00	3·00	3·00	100
	187·00	3·00	3·00	100
	190·00	3·00	3·00	100
	193·00	3·00	3·00	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	STRUCTURE	MINERALISATION
180–188·70	GABBRO DYKE	Clay/Chlorite	Massive	Barren
188·70 – 194·60	Green gray TUFFACEOUS SANDSTONE grading into "pellet + ball" textured relatively undisturbed black shale + dark gray SS. At 190·70 10 cms layer of medium gray LIMESTONE with typical CRAZED fracturing. - Some pellets of limestone incorporated in shale but bulk of debris is Tusa.	< 1% calcite frac. infillings	188·70 C. CIA 40° 190·15 B. CIA 43° (sa/sh) 190·80 B. CIA 30° (lmst/sh) 191·50 B. CIA 33° (sh/sa) 192·40 B. CIA 49° (sa/sh) 194·60 B. CIA 31° (sh/sa)	3-5%. spotty aggregates of py + along fracs
194·60 –	Greenish gray massive + banded Tusa.			

SCALE 1:100 (1cm = 1 m)

42251

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 44

LOGGED BY S R YARDLEY FROM 180·0 TO 195·0 DATE / / PAGE 13 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	196.00	3.00	3.05	101
	199.00	3.00	3.00	100
	202.00	3.00	3.00	100
	205.00	3.00	3.05	101.6
	208.00	3.00	2.80	93.3

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL: 195.0 – 196 – 197 – 198 – 199 – 200 – 201 – 202 – 203 – 204 – 205 – 206 – 207 – 208 – 209 – 210

DESCRIPTION

Massive + banded / graded TUFFACEOUS SANDSTONE coarse → fine grained – grades up hole – i.e. youngs to east.
Minor gray to dark gray ss. (201.50 – 205.0)

– At 207.60 subangular, flakes pellets + clast of dark gray ss. – scour + fill ?

→ At 208.50 2 cm. buff coloured limestone band.

ALTERATION

Weakly HORNFELSED ? ?.

< 1% calcite veining + frac. infillings

STRUCTURE

196.50 V.CIA 62°

Banding exhibits microfaulting + dislocation

— 198.0 B.CIA 35°

— 202.90 V.CIA 45°

— 204.20 B.CIA 45°

— 208.30 B.CIA 36°

MINERALISATION

— 196.50 · 3 x 10 cms. Qtz Sid + Qtz calcite veins.

Essentially barren.

— 201.50 ·

201.50–204.0 10% Qtz/Sid/Calc veining Trace Py. + breccia frac.

— 202.80 · 10 cm. composite calcite qtz vein exhibiting stilolite sutures.

— 204.00

VISUAL PERCENTAGE MINERALISATION

422252

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH RDE 44

LOGGED BY S R YARDLEY FROM 195.0 TO 210.0 DATE / / PAGE 14 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	211.00	2.70	2.85	106.5
	213.70	3.10	3.10	100
	216.80	3.10	3.10	100
	219.90	1.70	1.70	100
	221.60	1.20	1.20	100
	222.80	3.10	3.10	100

SCALE 1:100 (1cm = 1m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
210 – 213	Environment becoming more silty ↓ At 211.0: grey limestone lense - - bands. here to 213.00 assume pale pinkish colour - may be dolomite?! At 212.70: flakes as per 209.80			211.50 B. CIA 35° 212.20 B. CIA 46°	211.0 ↓ Sporadic qtz veinlets & fracs + py/po.	
213 – 217.40	213.0: Change in depositional environment :— Charcoal gray inter bedded. carbonaceous. SILTSTONES + CALC SILTSTONES. ↓ increasingly CALCAREOUS ↓	7-10% calcite frac-fillings & veins.		MICRO PARTING. 216.90 B. CIA 45° (sL/ss)	Irreg. clots, fracs. & vein infillings of Po/Py - finer dissem 2-5%.	
217.40 – 220.50	217.40 SOOTY GREY BROWNISH. CALC. SILTSTONES & FINE TUFFACEOUS SANDSTONE - minor pockets of BUFF M. to C. gr TUFA. Indistinct fine banding	5-7% ditto		220.50 B. CIA 44° (f.gr. bands)	fairly Disseminated, fracture, & vein & bedded Po (Py) 2-3%	
220.50 – 225	220.50 Massive buff to pinkish pale brown. graded c to f. gr. CALC TUFFACEOUS SANDSTONE minor intercalated calc. ss	2-4% ditto	225.0	222.90 B. CIA 40 (ss/ss) 225.0. MICROFAULT. 10cm. offset.	Fine aggregates of disseminated Po & Coarse py. - also also along veinlets & fractures - sulphides appear to emanate and spread out from above veinlets & fracs. 5-10%	

◄ FAIRLY CLEAN POTENTIAL

422253

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE44

LOGGED BY S R YARDLEY FROM 210 TO 225 DATE / / PAGE 15 OF 35

LITHOLOGY

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	225.90	1.10	1.10	100
	227.00	2.00	1.90	95
	229.00	3.00	3.00	100
	232.00	3.00	3.00	100
	235.00	3.00	3.05	101.6
	238.00	3.00	3.00	100

INTERVAL: 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240

SCALE 1:100 (1cm = 1 m)

DESCRIPTION

228.90
Pale gray & mostly gray f.gr.
calc. fine med. calc ss.
Some laminated bedding

235.60
Dark gray fairly bedded non.
calc. ss. with occasional
calc. bands.

239.75.
see next page

CARBONATE REPLACEMENT HOST. →

ALTERATION

2-4% calcite vns
+ frac. infillings

7-10%
calcite frac.
infilling + vns.

2-6%
calcite frac.
infillings + veins

GRAPHIC LOG

STRUCTURE

- 226.40 V.C. CIA 46°
- 227.30 V.C. CIA 45°
- 228.90 B. CIA 25° (f banded calc ss)
- 229.60 B. CIA 38° (f banded ss/m)
- 232.90 B CIA 35° (banded calc ss)
- 238.90 B. CIA 40° (calc. ss/ss)
- 239.75 B. CIA 52° (ss/ss)

MINERALISATION

226.40 – 227.30 } mass. elevated
white vuggy qtz vn.
stoping qtz/calc vn.
Inclusions of brecciated
wall rock.
1% Py sp. to ga.

2-3% Po/Py
as before.

calcite veinlets
post date
sulphide phase

irreg clots, frac.
& vein infillings.
2-5% Po/Py
locally upto 10-15%

VISUAL PERCENTAGE MINERALISATION

422254

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE44

LOGGED BY S R YARDLEY FROM 225 TO 240 DATE / / PAGE 16 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	241.00	3.00	2.95	98.3
	244.00	3.00	3.00	100
	247.00	3.00	3.00	100
	250.00	2.00	2.00	100
	252.00	1.00	1.00	100
	253.00	1.50	1.55	103.3
	254.50	3.20	3.10	96.8

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL: 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255

DESCRIPTION

Pale greenish grey + grey pinkish brown massive graded tuffaceous sandstone c to f. grained → flinty ss. at top of cycle. Bulk of unit is f/f ss. grade and CALCAREOUS to 245.95.

↓

245·75

TUFFACEOUS SANDSTONE as above but matrix is only sporadically calcareous.

ALTERATION

HORNFELSING well developed.

243.10 Development of actinolite/tremolite spotting of ss. matrix

246.40 Development of narrow qtz pyrrhotite actino-lite + tremolite fracture + vein infillings approx ± 1% but locally higher

↓

continues through out zone. – more pronounced within matrix of coarse than

% increase to-wards 259.0

GRAPHIC LOG

STRUCTURE

– 243.10 BCIA 49° (ss)

– 254.0 S. CIA 52° (f.s/c.s)

MINERALISATION

2-4% finely disseminated + fracture/veinlet po/py.

as above trace to 1%

VISUAL PERCENTAGE MINERALISATION

422255

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE44

LOGGED BY S R YARDLEY FROM 240 TO 255 DATE / / PAGE 17 OF 35

198

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	257.70	3.10	3.10	100
	260.80	3.10	3.10	100
	263.90	3.10	3.10	100
	267.00	3.10	3.15	101.6

LITHOLOGY

INTERVAL: 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270

DESCRIPTION

257.0 - 294.50
Variably Siderite and Sulphide impregnated and in part CALCAREOUS TUFFACEOUS SANDSTONE - 45-50% of interval

RECEPTIVE LITHOLOGY.

ALTERATION

HORNFELSED
actinolite/tremolite
± po ↓

259.0 Strong to Incipient Siderite replacement.

Late qtz vein stoping of previous sulphide + carbonate phases

GRAPHIC LOG

V

qtz
qtz ↓
qtz

STRUCTURE

257.15 V CIA 30-40°

260.60 Fringe veins
261.0 V. CIA 41°
varies from 37-50°
average 45°

263.90 Sulphide banding Ci 35°

265.80 qtz vein CIA 37° (<1cm)

266.60 qtz vein CIA 30° (<1cm)

Post min. micro faulting offsets late stope vein qtz

270.00 Sulphide banding CIA 32°

MINERALISATION

257.15. 40cm Sheeted vuggy white qtz vn stoping qtz carbonate sp vein 2% sp + ga as clots
Minor intercalated wallrock

260.6 - 263.0 (2.40m)

Massive white qtz vn as above.
Concentrations of sp + ga with cracks and
263.0 box's on upper contact

Irregular concentration of disseminated + fracture po/py varies from 2 to 3 to 15%.

VISUAL PERCENTAGE MINERALISATION

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE44

LOGGED BY SR YARDLEY FROM 255 TO 270 DATE / / PAGE 18 OF 35

422256

DRILL ADVANCE

LOST CORE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
270.10	3.10	3.10	100
273.20	3.10	3.10	100
276.30	1.40	1.35	96.4
277.70	0.50	0.20	66.6
278.00	0.30	0.20	66.6
278.30	1.80	1.70	94.4
280.10	2.90	2.70	93.1
283.00	2.50	2.85	114

LITHOLOGY

INTERVAL: 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285

SCALE 1:100 (1cm = 1 m)

DESCRIPTION

See previous page.

ALTERATION

HORNFELSED actino/tremo ± po ↓

271.30 ↓ Weak Siderite impreg.

↑ 275.0

Siderite Zone.

280.50

283.50 Actino/tremo clots in matrix

GRAPHIC LOG

STRUCTURE

271.30 Chert/Sulphide banding CtA 22°

275.40 V. CtA. 22°

279.40 V. CtA. 25°

280.50 B. CtA 40° (so/ss)

MINERALISATION

275.40 70cm. Qtz Sid Sp/Gn vein with later aspy. cockscomb & breccia tex's. 5% sulphide

279.40 <1.0cm. Qtz Sid aspy vn.

VISUAL PERCENTAGE MINERALISATION

5% Sp/Gn

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE14

LOGGED BY S.R. YARDLEY FROM 270 TO 285 DATE / / PAGE 19 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	285·50	3.10	3.00	96·7
	288·60	3.10	3·00	96.7
	291·70	3.10	3.10	100
	294·80	3.10	3.00	96·7
	297.90	3.10	3.10	100

LITHOLOGY

INTERVAL

285·0
286·0
287
288
289
290
291
292
293
294
295
296
297
298
299
300

DESCRIPTION

292·80 Graded bedding GRADES UP HOLE ie EAST FACING.

294·50

Purplish brown grey. graded fine grained TUFFACEOUS SANDSTONE + SILTSTONE with occasional pale coloured CHERT BANDS.

ALTERATION

HORNFELSED
actino/Tremo ± po

Trace to 1%
fracture calcite
↓

GRAPHIC LOG

STRUCTURE

288·60 B. CIA 35° (sa)

292·80 B. CIA 40° (sa)

295·20 B. CIA 47° (sa/sc)

MINERALISATION

288·60 70cm zone of semi massive Sulphide replacement 20% py/po locally 50%

294·50

Fracture + veinlet po/py. (4:1) averages approx ±1-2% locally 5%. Very minor disseminative

~~299·00~~

Drastic drop in fracture Po.

VISUAL PERCENTAGE MINERALISATION

422258

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 44

LOGGED BY S R YARDLEY FROM 286 TO 300 DATE / / PAGE 20 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	301.00	3.00	3.10	103.3
	304.00	2.30	2.30	100
	306.30	2.10	2.00	95.2
	308.40	2.80	2.75	98.2
	311.20	1.20	1.30	108.3
	312.40	0.90	0.90	100
	313.30	1.50	1.50	100
	314.50	3.10	3.10	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
300	See Previous Page.	HORNFELS SZB			Trace to ± 1% fracture + rare disseminations of Po.	
303				303.50 B.CIA 35° (ss/sa)		
305				305.20 B.CIA 35°		
307		307.00 ↓ Increasing frequency of actino/tremo ± Po veins veinlets fractures + disseminations in sa. bands.				
310				310.50 B.CIA 33°		
315						

SCALE 1:100 (1cm = 1 m)

422259

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 44

LOGGED BY SR YARDLEY FROM 300 TO 315 m DATE / / PAGE 21 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	317.90	3.10	3.10	100
	321.00	3.10	3.10	100
	324.10	3.00	2.85	95
	327.10	1.50	1.30	86.6
	328.60	0.70	0.75	107.1
	329.30	2.10	2.10	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
315 – 319.40	See Previous Page.	~~HORNFELSED~~		315.80 B. CIA 48°	Trace to ± 1% fracture and rare. dissemination of Po.	
319.40 – 321.0	319.40 - 321.0. QUARTZ-AXINITE/FLUORITE TREMOLITE ACTINOLITE PYRRHOTITE VEIN ZONE with minor intercalated grey green tuffs	319.40 QUARTZ AXINITE assemblage.		319.40 V. CIA 35° Sulphide banding 30° Actinolite band. CIA. 39°	319.40. 5% banded Po sub // to bedding - locally 20% minor Cp.	5%
				321.55. V. CIA 46° 322.40 B CIA 40° (a/c) 323.00 ditto. 52° (a/c)	321.55 4cm. late qtz vn. with inclusions of tremol actino.	
		323.0 ↓ Reduction in frequency of tremolite/actinolite ± Po veins + disseminations ± 1% overall.		327.00 } 329.0 } Wedging core fragmented		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE44

LOGGED BY S.R. YARDLEY FROM 315 TO 330 m DATE / / PAGE 22 OF 35

422260

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					330		HORNFELSED				
					331						
	331.40	1.10	1.10	100							
					332						
	332.50	2.10	2.15	102.3							
					333						
					334						
	334.60	2.40	2.40	100							
					335				335.0 B. CIA 52°		
					336				336.30 B. CIA 60°		
	337.00	3.00	3.00	100	337			Δ Δ	337.0 ΔΔ breccia fracture minor fault zone same plane as bedding but low angle. Strikes N-S dips shallowly W.		
					338						
					339						
	340.00	3.00	2.90	96.6	340			Δ Δ	340.20 F CIA 30°, Vuggy with calcite infilling Late feature.	340.20 4mm QTZ actino/[illegible] vein CIA35° cut by late calcite veinlets/vug infillings. Vein parallels bedding - subpar. Set strikes ESE dips vertically ESW CIA 20°	
					341						
					342				341.95 B. CIA 60° (grit/sa)		
	343.00	3.00	2.95	98.5	343						
					344						
					345						

192224

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE44

LOGGED BY S R YARDLEY FROM 330 TO 345 m DATE / / PAGE 23 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	346.00	3.00	3.10	103.3
	349.00	2.60	2.60	100
	351.60	1.10	1.10	100
	352.70	0.80	0.80	100
	353.50	1.10	1.10	100
	354.60	2.20	2.10	95.4
	356.80	1.40	1.40	100
	358.20	1.70	1.85	108.8
	359.90	1.10	1.10	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
345		HORNFELSED			
348			348.20 B.C/A 50° (sa/ss)		
349			349.60 B.C/A 20° (sa/ss)		
350	350.20 Dark greenish black sheared. basaltic tuff? Succession becoming more pelitic	350.00 marginal increase in Qtz actino/tremo veins & veinlets. +1%.	350.30. 10 cm. Shear Zone. carbonated - slicken-sided. C/A. 42°	350.30 Trace dissem & veinlet py/cp	
352			352.0 Core becoming wedgey & broken.		
354			354.90 B.C/A. 45°		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH DBE 44

LOGGED BY S.R. YARDLEY FROM 345 TO 360 m DATE / / PAGE 24 OF 35

422262

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	361.00	1.70	1.65	97
	362.70	1.40	1.40	100
	364.10	0.70	0.70	100
	364.80	1.20	1.20	100
	366.00	1.00	1.00	100
	367.00	1.00	1.00	100
	368.00	1.80	1.70	94.4
	369.80	1.50	1.50	100
	371.30	2.00	2.00	100
	373.30	1.90	1.90	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
360	continuation of:— Monotonous sequence of purplish grey brown and lesser grey green hornfelsed:— tuffaceous sandstone medium to fine grained + siltstone 30-40% / 70-60% overall.	HORNFELSED C Increased: metasomatic vein + fracture intensity.		Core becoming distinctly wedgey + broken. – 362.20 V. CIA 19°	– 362.20 3cm. Qtz tremo/actino vein	
372.0	Strong metasomatic assemblage + dark green black aggregated and discrete crystal-mineral DISCORATION TEXTURES COMMON.	Qtz, tremolite actinolite, sericite tourmaline???.		? FAULT? ?	No visible sulphides	
374.30						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH ....

LOGGED BY SR YARDLEY FROM 360 TO 375m DATE / / PAGE 25 OF 35

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE (INTERVAL)	CORE RECOVERY	PERCENT RECOVERY
	375.20	1.60	1.60	100
	376.80	0.70	0.70	100
	377.50	0.40	0.50	125
	377.90	0.50	0.50	100
	378.40	0.70	0.70	100
	379.10	2.90	2.80	96.5
	382.00	1.00	1.00	100
	383.00	2.70	2.70	100
	385.70	2.30	2.30	100
	388.00	0.50	0.40	80
	388.50	2.30	2.30	100

INTERVAL

395
396
377
398
379
380
381
382
383
384
385
386
387
388
389
390

DESCRIPTION

ALTERATION

HORNFELSED

396·0

Decrease in metasomatic veining + frac. infillings

GRAPHIC LOG

STRUCTURE

- 384.30 B.CIA 59°

MINERALISATION

VISUAL PERCENTAGE MINERALISATION

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE44

LOGGED BY SR YARDLEY FROM 375 TO 390 m DATE / / PAGE 26 OF 35

422264

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	390.80	1.10	1.00	90.9
	391.90	1.40	1.40	100
	393.30	1.20	1.20	100
	394.50	1.20	1.20	100
	396.30	1.00	1.00	100
	397.30	1.80	1.80	100
	399.10	3.10	3.10	100
	402.20	1.60	1.60	100
	403.80	1.50	1.45	96.6

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
390		HORNFELSED.				
396				396.00 B.C.A's 62-70°		
		396.50. 50cm. metasomatic zone.			396.50. 50cm. Tm./calc. fracs + veins	
402	402.20 Current bedded + graded. fine gr. grey green. tuffs + ss.			402.20 B CA's 42-60° Current bedded. ss.		
403	403.0 Predominantly a siltstone / pelite facies with narrow graded bands of f.gr. tuffs Appearance of dark purplish grey/black smooth ss (with high magnetic content *			402.9. B.CA. 53°	detrital magnetite?	

SCALE 1:100 (1cm = 1 m)

42265

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 44

LOGGED BY S.R. YARDLEY FROM 390 TO 405 m DATE / / PAGE 27 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	405.30	2.80	2.70	96.4
	408.10	3.10	3.10	100
	411.20	2.00	2.00	100
	413.20	1.10	1.10	100
	414.30	1.70	1.60	94.1
	416.00	1.30	1.30	100
	417.30	1.00	1.00	100
	418.30	0.80	0.80	100
	419.10	1.30	1.20	92.3

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
405		HORN FELSED.				
410.70				410.70 B. CIA. 62° (sa/ss)		
418.0 – 419.0	Hornfelsed 'pellet' texture in banded purplish ss + granule tuff with metasomatised spotted texture - calc. tuff?	Strong metasomatised zone.		418.0 B. CIA 65°		

*

422266

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 44

LOGGED BY S.R. YARDLEY FROM 405 TO 420 m DATE / /

PAGE 27 OF 35

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
420.40	2.00	1.90	95
422.40	1.00	0.90	90
423.40	1.10	1.10	100
424.50	2.30	2.30	100
426.80	1.30	1.20	92.3
428.10	2.60	2.50	96.1
430.70	1.30	1.30	100
432.00	1.30	1.30	100
433.30	1.70	1.60	94.1
435.00	2.20	2.20	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL 420 – 435

DESCRIPTION

425.0 Purplish brown ss. + greenish grey banded. f.gr. tra. - strong magnetic response. See RBE 45 interval. 120 - 200 metres for equivalent unhornfelsed. magnetic succession of cyclic graded tuffaceous Sandstones + Siltstones which are characterised by their weak to strong purplish haematite colour.

ALTERATION

HORNFELSED

*

429.50

*

GRAPHIC LOG

STRUCTURE

425.40 B. CIA 52°-58° (cs/ss)

426.20 B. CIA 62° (ss/ss)

433.80 V. CIA 30°

434.40 B. CIA 60°-65° (ss/s)

MINERALISATION

425.0 High magnetite content

433.80 - 1.0cm qtz carbonate / Tran. vein

VISUAL PERCENTAGE MINERALISATION

422267

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 44

LOGGED BY SR YARDLEY FROM 420 TO 435 m DATE / /

PAGE 29 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	437·20	1·80	1·75	97·2
	439·00	2·00	2·00	100
	441·00	0·90	0·90	100
	441·90	2·70	2·70	100
	444·60	3·10	3·10	100
	447·70	1·70	1·70	100
	449·40	0·90	0·90	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL

435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450

DESCRIPTION

435·0 Appearance of qtz rich ~~[illegible]~~ graded (up hole) tuff bands. Subangular clear qtz chips upto 2mm diam

Minor c.gr. tuff bands.

Units still predominantly haematitic purplish brown with minor grey green horizons.

ALTERATION

HORNFELSED.

GRAPHIC LOG

STRUCTURE

- 437·40 B. CIA. 62° (tu/ss)
- 441·10 B. CIA. 65° (sa)
- 446·40 B. CIA. 51° (ca/ss)
- 448·0 - V. CIA 35° [illegible]

MINERALISATION

- 445·40 Calcite vein with trace Rhodocrosite
- 448·0. 2cm qtz Tremo/actino + late calcite

VISUAL PERCENTAGE MINERALISATION

422268

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 44

LOGGED BY S R YARDLEY FROM 435 TO 450 m DATE / / PAGE 30 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	450·30	1·30	1·30	100
	451.60	1.70	1·60	94·1
	453.30	3·10	3.10	100
	456·40	1·40	1, 40	100
	457.80	2.00	2·00	100
	461·90	1·10	1·10	100
	463·00	0·75	0·80	113·5
	463·75	1·35	1·35	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL: 450 – 465

DESCRIPTION

450·50 c.g. green grey Tree band. graded - up hole ie facing east.

452·50 Porphyritic brown cs + f.g. Tree - dominantly and ss facies - sporadic banding

458·50 Grades uphole.

ALTERATION

~~HORNFELSED~~ +1% actino/ tremolite frac. infillings ± Po.

xxxx

460·0 ± 1%. calcite veins with selvage of rhodochrosite

xxxx

GRAPHIC LOG

STRUCTURE

452·50 B. CiA 60° (sa/ss)

453·50 B. CiA. 54°-61° (sa/ss)

456·20. B. CiA. 65° (f.g/ca)

458·50 B. CiA. 60° (cs/sa)

461·0 V. CiA 45°

MINERALISATION

450·50. frac. + dissem. cp py - trace

453·0 Strong Magnetic response.

461·0. 20cm qtz actino/ tremolite vein

VISUAL PERCENTAGE MINERALISATION

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 44

LOGGED BY S R YARDLEY FROM 450 TO 465 m DATE / / PAGE 31 OF 35

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DRILL ADVANCE

LOST CORE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
465.10	0.60	0.60	100
465.70	1.70	1.80	106.8
467.40	2.30	2.30	100
469.70	1.80	1.80	100
471.50	1.40	1.40	100
472.90	1.10	1.10	100
474.00	1.10	1.15	104.5
475.10	1.90	1.80	94.7
477.00	2.00	2.00	100
479.00	0.60	0.60	100
479.60	0.50	0.50	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL

465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480

DESCRIPTION

See previous page

Some good graded bedding in these units - all face up hole. ie dip east.

479.60 Qtz actinolite veins cut across bedding - strike E-W dip steep S.

ALTERATION

HORNFELSED
<1% calcite
rhodocrosite
veining

479.60

GRAPHIC LOG

STRUCTURE

Core becoming increasingly wedgy & broken - short runs.

- 467.30 B. CIA 72° (ss/ss)
- 474.0 B. CIA 70° (ss/ss)
- 479.60 V. CIA's 55° 50°
- 480.0 B. CIA 65° (ss/ss)

MINERALISATION

Strongly magnetic

479.60 Two 2cm Qtz actinolite veins cut by late pink rhodocrosite

VISUAL PERCENTAGE MINERALISATION

422270

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH PBE 44

LOGGED BY S.R. YARDEY FROM 465 TO 480 m DATE / / PAGE 32 OF 35

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	480.10	1.40	1.35	96.4
	481.50	1.50	1.45	96.6
	483.00	1.30	1.30	100
	484.30	1.00	1.05	105
	485.30	2.50	2.40	96
	487.80	0.80	0.80	100
	488.60	0.60	0.55	91.6
	489.20	0.80	0.75	93.7
	490.00	1.20	1.25	104.1
	491.20	0.70	0.75	107.1
	491.90	0.90	0.90	100
	492.80	0.40	0.40	100
	493.20	1.50	1.45	96.6
	494.70	1.00	0.95	95

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
480	See previous page.	xxxxx HORNFELSED			Strongly magnetic	
481						
482						
483						
484						
485				485.50 – B CIA. 62° (so/sc)		
486				486.10 V. CIA 5°	486.10 1cm. Qtz Trans/ actino vein. Trace py	
487				487.0 V. CIA 65°	487.0 4cm. ditto. + Pyrite 2 sets of veins	
488						
489						
490						
491						
492						
493						
494				494.90 B. CIA. 40° (so/sc)		
495		xxxxx.				

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 44

LOGGED BY S.R. YARDLEY FROM 480 TO 495 m DATE / / PAGE 33 OF 35

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	495.70	0.90	0.80	88.8
	496.60	1.80	1.80	100
	498.40	0.90	0.90	100
	499.30	1.20	1.10	91.6
	500.50	0.70	0.70	100
	501.20	0.80	0.80	100
	502.00	0.80	0.75	93.7
	502.80	1.10	1.10	100
	503.90	0.90	0.90	100
	504.80	0.90	0.90	100
	505.70	0.30	0.30	100
	506.00	0.70	0.70	100
	506.70	0.70	0.75	107.1
	507.40	0.20	0.20	100
	507.60	1.10	1.00	90.9
	508.70	0.70	0.70	100
	509.40	1.10	1.10	100

LITHOLOGY

INTERVAL: 495 – 510

DESCRIPTION

See previous page.

504.85. Section 5-9%? v. fine and some coarse grains ±1.0mm. diam. of detrital magnetite

ALTERATION

+ HORNFELSED →

GRAPHIC LOG

STRUCTURE

496.60 V. CIA 45°

500.20 B. CIA 60° (ca/f.gr.)

505.0 B. CIA. 65° (ca/cc)

506.20. V. CIA 53°

509.0 B. CIA 65° (ca/cs

MINERALISATION

Strongly magnetic

496.60 5cm. qtz actino/tremo vein with 5-7% py. po cp. aspy. - tourmaline?

501.80. Calcite/Rhodocrosite veining + fracture infill

506.20 4 qtz actino/tremo veins + trace py over. 50cm 2. cut at bangles

509.50 20.cm. qtz actino/tremo vein

VISUAL PERCENTAGE MINERALISATION

422272

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 44

LOGGED BY S R YARDLEY FROM 495 TO 510 m DATE / / PAGE 34 OF 55

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	510.50	0.30	0.30	100
	510.80	0.90	0.90	100
	~~511.70~~	~~0.20~~	~~0.20~~	~~100~~
	511.90	0.80	0.70	87.5
	512.70	1.80	1.70	94.4
	514.50	0.60	0.50	83.3
	515.70	0.25	0.25	125
	~~515.90~~	~~0.70~~	~~0.70~~	~~100~~
	516.40	EOH		

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
510. 511 512 513 514. 514.60 EOH.	No change in lithology. Alternating bands/units of graded fsa + cs. Colour still dominantly dark purplish brown grey (haematitic) + greenish grey. Lithology alternates between sandstone + siltstone - monotonous. Repetitive trough sets. - no evidence of carbonate - although some of coarser sandstone units may have originally had a calcareous matrix.	HORNFELSED No real. variance in frequency of tremolite/actinolite ± po py. veins. + fracture infillings. H		- 512.00 B. CtA. 69°(sc) - 513.50 B. CtA's. 65°-70°(sets) Micro faulting	Strongly magnetic	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE44

LOGGED BY S.R. YARDLEY FROM 510 TO EOH 516.40 DATE / / PAGE 35 OF 35

422273

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
35m	BLO	45		15	160	BLO	7		125							
40 m	BLO	40		5	130	BLD	4		100							
43 m	BLO	75		5	155	BLO	18		120							

42274

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 30m TO 45m DATE 11 / 1 / 83 PAGE 1 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S G						SAMPLE NUMBER
46 m	BLD	50		35	140	0.5	5		90							
49 m	BLD	35		65	235	0.5	5		120							
51.60	BLD	30		30	230	0.5	11		125							
54.30	BLD	15		40	135	BLD	4		95							
57.20	BLO	40		10	180	0.5	4		150							
59.80																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 44

ASSAYED BY ANALABS FROM 45m TO 60m DATE 11 /1 /83 PAGE 2 OF 33

422275

60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	25		60	300	BLD	5		150							
61m	BLD	25		BLD	275	0.5	10		165							
64m																

422276

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 60m TO 75m DATE 11/1/83 PAGE 3 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
76 m	BLD	135		10	185	0.5	12		115							
79 m	BLD	75		20	255	BLD	9		95							
82 m	BLD	140		5	135	BLD	11		115							
85 m	5	105		BLD	150	BLD	5		120							
88 m	BLD	155		5	190	BLD	11		130							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 75m TO 90 m DATE 11/1/83 PAGE 4 OF 33

220

90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG							SAMPLE NUMBER
91m	BLD	105		BLD	155	BLD	8		110								
93.60	BLD	50		5	200	BLD	11		35								
96.70	BLD	95		BLD	210	BLD	6		40								
99.40	BLD	175		35	665	5.0	30		200								
101.20	BLD	110		20	360	3.0	18		155								
103m	BLD	245		5	325	3.0	19		135								
104.70																	

422278

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 90m TO 105m DATE 11/1/83 PAGE 5 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	205		10	355	2·5	19		125							
106 m	BLD	175		15	270	4·5	18		125							
108·50	BLD	175		10	300	5·5	13		140							
110·10	BLD	165		10	330	1·0	19		130							
113·70	BLD	325		10	315	3·0	18		135							
116·60	BLD	195		5	355	0·5	19		150							
117·90	BLD	110		BLD	185	BLD	17		110							

42279

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 105m TO 120m DATE 11/11/83 PAGE 4 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
121 m	BLD	110		5	150	1·0	16		120							
124 m	BLD	95		115	1000	0·5	3400		90							
127 m	BLD	125		65	315	1·0	130		100							
130 m	BLD	115		5	170	1·5	33		105							
133 m	BLD	185		5	185	1·0	25		110							

42280

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 120m TO 135m DATE 11/1/83 PAGE 7 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
136m	BLD	115		75	595	1·0	25		120							
139m	BLD	120		5	155	BLD	12		120							
142m	11	115		BLD	140	BLD	14		115							
145m	BLD	85		5	130	0·5	12		90							
148m	BLD	60		5	80	BLD	13		55							

422281

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 135m TO 150m DATE 11/1/83 PAGE 8 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
151m	BLD	95		60	285	0.5	53		85							
153.50	BLD	160		5	185	0.5	17		100							
156.60	BLD	255		5	150	BLD	9		85							
159.70	BLD	180		10	120	BLD	BLD		105							
162.80	BLD	185		5	155	BLD	8		125							

4222282

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 150m TO 165m DATE 11/1/83 PAGE 9 OF 33

	METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
165																	
166	166m																
167																	
168		BLD	170		10	145	BLD	17		125							
169	169m																
170																	
171		BLD	145		15	205	BLD	20		105							
172	172m																
173																	
174		BLD	225		5	165	1.0	14		100							
175	175m																
176																	
177		BLD	195		20	225	BLD	10		95							
178	178m																
179		BLD	195		5	100	0.5	8		85							
180																	

422283

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 44

ASSAYED BY ANALABS FROM 165m TO 180m DATE 11/1/83 PAGE 10 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
181m	BLD	220		5	105	BLD	1		80							
184m	BLD	255		10	125	0·5	10		90							
187m	BLD	140		5	130	0·5	19		110							
190m	5	125		25	155	0·5	8		125							
193m	BLD	150		10	185	BLD	15		130							

42284

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 180m TO 195m DATE 11/1/83 PAGE 11 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
196m	BLD	130		55	365	BLD	76		135							
199m	BLD	120		10	175	0.5	9		135							
202m	BLD	145		15	225	1.0	10		140							
205m	BLD	145		5	195	BLD	10		150							
208m	BLD	135		10	180	0.5	9		145							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 195 TO 210m DATE 11/1/83 PAGE 12 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
211m	BLD	135		10	150	2.0	18		125							
213.70	BLD	145		15	250	BLD	120		100							
216.80	BLD	95		20	125	0.5	16		80							
219.40	BLD	100		10	125	2.0	19		90							
221.60	BLD	55		15	95	0.5	1		70							422286
222.60	BLD	100		10	145	BLD	19		105							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 210m TO 225m DATE 11/1/83 PAGE 13 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
225·90	14	325		90	680	2·0	1000		115							
227m	7	125		110	350	0·5	480		110							
229 m	BLD	110		5	150	0·5	20		160							
232m	BLD	65		5	105	BLD	17		90							
235m	BLD	135		15	115	BLD	19		95							
238m	4	115		5	115	BLD	17		80							

4228

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 225m TO 240m DATE 11/1/83 PAGE 14 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
241 m	7	105		5	85	BLD	35		120							
244 m	27	155		30	120	BLD	57		140							
247 m	15	65		BLD	145	BLD	58		135							
250 m	11	55		BLD	115	BLD	78		125							
253 m	26	30		BLD	100	BLD	130		120							
254 m																

422288

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 240 m TO 255 m DATE 11 / 1 /83 PAGE 15 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	28	45		80	2450	2.0	1700		100							
257.70	110	70		1450	1.13%*	6.0	2000		90			* By	method	104		
260.60	105	305		6450	1.50%*	28*	3200		85			* By	method	104.		
263.90	72	235		555	1450	2.5	210		120							
267 m	69	95		550	1350	3.0	190		110							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY Analabs FROM 255 m TO 270 m DATE 11/1/83 PAGE 16 OF 33

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
270·10	111	410		340	1000	2·5	130		105							
273·20	103	65		1450	2450	2·0	1200		165							
276·30	98	30		350	585	1·0	950		135							
280·10	66	25		45	185	0·5	130		115							
283 m	82	25		50	165	1·0	170		90							

422290

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 44

ASSAYED BY ANALABS FROM 270 m TO 285 m DATE 11 / 1 /83 PAGE 17 OF 33

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
285·50	82	85		30	175	BLD	100		85							
288·60	169	440		15	165	BLD	63		105							
291·70	99	45		10	125	BLD	190		100							
294·80	17	225		885	250	1·0	300		100							
297·90	19	130		30	110	0·5	40		85							

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 44

ASSAYED BY Analabs FROM 285m TO 300m DATE 11/1/83 PAGE 18 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
301 m	12	45		5	100	BLD	50		100							
304 m	BLD	70		10	150	BLD	26		105							
306·30	20	40		10	105	BLD	39		75							
308·40	101	80		5	95	BLD	29		75							
311·20	21	25		15	100	0·5	37		75							
314·80																

42292

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 300 TO 315m DATE 11/1/83 PAGE 19 OF 33

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	35	35		5	105	0·5	75		95							
317.90	394	55		10	130	0·5	72		90							
321 m	13	75		BLD	115	BLD	20		75							
324.10	BLD	50		BLD	115	0·5	15		100							
327 m	6	25		30	95	0·5	20		85							

422293

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY Analabs FROM 315 TO 330 m DATE 11/1/83 PAGE 20 OF 33

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
331.40	13	15		BLD	90	BLD	20		90							
334.60	14	55		10	100	BLD	14		90							
337m	BLD	85		10	105	0·5	39		120							
340m	7	40		15	120	0·5	46		120							
343m	5	55		10	110	0·5	28		115							

422294

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RGE 44

ASSAYED BY ANALABS FROM 330m TO 345m DATE 12/1/83 PAGE 21 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
346m	BLD	60		20	240	0·5	15		115							
349	24	175		75	410	0·5	120		155							
352·90	8	45		65	260	2·0	41		100							
356·80	8	45		15	180	1·5	13		100							
359·90																

422205

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 44

ASSAYED BY ANALABS FROM 345 m TO 360m DATE 12/1/83 PAGE 22 OF 33

360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	33	65		5	175	1·0	19		110							
364·10	10	35		5	175	2·0	20		110							
367 m	31	35		5	155	1·5	25		95							
369·80	69	35		10	165	1·5	36		110							
373·30	107	50		15	155	1·5	40		105							

42296

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 360m TO 375m DATE 12/1/83 PAGE 23 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
376.80																
	10	50		10	155	1.5	26		110							
379.70																
	12	45		10	120	1.5	20		85							
383m																
	5	55		20	135	1.0	13		90							
385.70																
	BLD	75		5	140	0.5	6		100							
388.50																

422297

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 375 m TO 390 m DATE 12/1/83 PAGE 24 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	55		10	140	1.0	5		105							
391.90	BLD	35		40	210	0.5	16		100							
394.50	BLD	150		10	170	0.5	33		110							
397.30	BLD	145		BLD	165	0.5	18		165							
399.70	BLD	105		5	150	BLD	18		150							
402.20	BLD	45		5	150	0.5	7		110							

422298

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 390 TO 405 DATE 12/1/83 PAGE 25 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
408·30	BLD	600		5	180	1·0	BLD		90							
408·10	BLD	55		5	145	0·5	BLD		85							
411·20	7	35		5	155	BLD	BLD		105							
414·30	BLD	35		5	155	BLD	13		105							
418·30																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 44

ASSAYED BY ANALABS FROM 405m TO 420m DATE 12/1/83 PAGE 26 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG							SAMPLE NUMBER
	BLD	55		5	115	BLD	54		95								
422.40	9	45		5	155	0.5	17		90								
426.80	BLD	45		BLD	145	1.0	BLD		100								
430.70	BLD	45		BLD	175	BLD	BLD		110								
435																	

422300

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 44

ASSAYED BY Anglabs FROM 420m TO 435m DATE 12/1/83 PAGE 27 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	70		10	165	BLD	BLD		105							
439m	7	85		5	165	0.5	18		80							
441.90	BLD	215		10	165	BLD	17		90							
444.60	4	125		5	185	BLD	6		90							
447.70	BLD	100		BLD	195	BLD	1		85							

435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450

422301

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 44

ASSAYED BY ANALABS FROM 435m TO 450m DATE 12/1/83 PAGE 28 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
450·30	4	425		5	170	BLD	BLD		100							
453·30	BLD	55		10	160	BLD	BLD		100							
456·40	BLD	145		BLD	200	0·5	1		85							
459·80	4	150		5	210	0·5	BLD		90							
463 m	4	75		5	190	BLD	BLD		100							

422302

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RDE 44

ASSAYED BY ANALABS FROM 450 TO 465 DATE 12/1/83 PAGE 29 OF 33

465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
465·70	6	55		5	175	0·5	BLD		125							
469·70	BLD	855		5	175	BLD	BLD		120							
472·90	BLD	290		10	195	BLD	BLD		110							
475·10	BLD	55		5	155	0·5	BLD		105							
479 m																

42203

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 44

ASSAYED BY ANALABS FROM 465 m TO 480 m DATE 12/1/83 PAGE 30 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	65		BLD	190	0.5	1		155							
483 m	6	205		BLD	185	0.5	10		95							
487.60	4	135		5	170	BLD	BLD		95							
491.20	BLD	100		BLD	195	0.5	BLD		105							
494.70																

422304

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY Analabs FROM 480m TO 495m DATE 12/1/83 PAGE 31 OF 33

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	420		5	185	1.5	BLD		105							
498.40	BLD	65		5	160	BLD	BLD		95							
501.20	BLD	55		BLD	190	1.5	BLD		95							
504.80	8	105		5	190	1.0	BLD		100							
507.60	8	1600		BLD	235	0.5	BLD		105							

42305

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY ANALABS FROM 495 TO 510 DATE 12/1/83 PAGE 32 OF 33

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
510.80																
	BLD	190		5	215	1.0	BLD		90							
512.70																
	19	90		5	175	1.0	BLD		115							
515.40																

422306

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 44

ASSAYED BY Analabs FROM 510 m TO 525 m DATE 12/1/83 PAGE 33 OF 33

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422307

DRILLHOLE LOG

R.B.E. 45

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
						Cored through weathered Sediments.					
	21.00	1.90	1.90	100	21.0	<u>tuffaceous sandstone and siltstone.</u> weathered and extensively fractured light grey and grey interbedded and intercalated fine grained tuffaceous sandstone and siltstone; sandstone units with siltstone / shale pellets.	iron staining on fracture faces to 24.2 m.		Core extensively broken and commonly rubble. 22.2 B @ 25° (sn/ss)	trace pyrite in fractures	tr.
	22.90	2.70	2.70	100							
	25.60	1.30	0.90	69.2							
	26.90	3.10	1.30	41.9					27.0 B @ 40° (ss)		
	30.00	2.00	1.90	95							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH TBC 45

LOGGED BY J.D. CRIMEEN FROM 15 TO 30 DATE 25 / 1 / 83 PAGE 2 OF 23

422308

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	32.00	2.00	1.70	85
	34.00	3.20	3.00	93.7
	37.20	2.80	1.80	64.2
	40.00	1.70	1.20	70.5
	41.70	1.30	1.10	84.6
	43.00	2.30	1.20	52.1

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Intercalated and interbedded light grey and grey leached fine grained tuffaceous sandstone and siltstone.			core extensively broken due to weathering. unit well bedded.	trace pyrite on fracture faces.	Tr
				31.3 B @ 48° (ss)		
				33.0 B @ 40° (ss).		
				34.1 B @ 51° (ss/sa)		
				35.3 B @ 50° (ss/sa)		
				37.4 B @ 52° (ss/sa)		
				39.5 B @ 46° (ss/sa)		
				41.9 B @ 48° (ss)		
				42.0 B @ 45° (ss)		

SCALE 1:100 (1cm = 1 m)

422309

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH Kei 45

LOGGED BY J D CRIMEEN FROM 30 TO 45 DATE 28/1/88 PAGE 3 OF 23

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	45·30	0·90	0·65	72·2
	46·20	0·60	0·50	83·3
	46·80	0·90	0·30	33·5
	47·70	0·30	0·20	66·
	48·00	1·00	0·15	15
	49·00	1.50	1·50	100
	50·50	0·80	·90	112·5
	51·30	0·80	0·70	87·5
	52·10	0·70	0·70	100
	52·80	1·50	1·10	73·3
	54·30	0·50	0·50	100
	54·80	1·20	1·20	100
	56·00	1·10	1·10	100
	57·10	1·70	1·50	88·2
	58·80	1·40	1·30	92·8

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	extensively shattered /broken core of interrelated and interbedded carbonaceous black shale and dark grey siltstone with minor grey siltstone.	occasional small smooth quartz vein		unit heavily disrupted and fractured into mostly rubble.	common pyrite patches and disseminated.	2%
				46·4 B @ 60° (ss)		
	around 51.0 core only gravel - cave zone					
				57.8 B @ 52° (sh/ss)		
				59.2 B @ 51° (sh/ss)		
	59.4 white tuffaceous sandstone.					

42310

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBC 45

LOGGED BY J.D. CRIMEEN FROM 45 TO 60 DATE 28/1/83 PAGE 4 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	60.20	2.60	2.50	96.1
	62.80	1.40	1.30	92.8
	64.20	1.30	1.20	92.3
	65.50	1.00	0.95	95
	66.50	0.50	0.50	100
	67.00	0.60	0.60	100
	67.60	0.90	1.00	111.1
	68.50	0.90	0.90	100
	69.40	0.30	0.10	38.3
	69.70	0.40	0.30	75
	70.10	0.70	0.70	100
	70.80	1.00	1.00	100
	71.80	0.20	0.20	100
	72.00	0.70	0.70	100
	72.70	0.30	0.30	100
	73.00	0.50	0.50	100
	73.50	0.70	0.50	71.4
	74.20	0.80	0.70	87.5
	75.00	0.60	0.60	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and interbedded white and grey fine grained tuffaceous with beds of grey siltstone, and siltstone.	occasional quartz vein small and smooth.		Core extensively fractured and some places to rubble.	minor pyrite in veins.	
				61.7 B @ 65° (ss)		
				63.2 B @ 28° (ss)		
	63.6 2.9 metres of carbonaceous black shale and dark grey siltstone.					
				64.5 B @ 43° (ss/sh)		
				65.7 B @ 51° (ss/sh)		
	66.5 1.9 metres of mixed carbonaceous black shale and dark grey siltstone and fine grained grey tuffaceous sandstone.					
				68.1 B @ 47° (ss/sh)		
				69.4 B @ 42° (ss)		
	70.0 predominantly massive fine grained tuffaceous sandstone.					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 45

LOGGED BY J.D. CRIMEEN FROM 60 TO 75 DATE 28/1/83 PAGE 5 OF 23

42311

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	75.80	0.60	0.60	100
	76.40	0.70	0.60	114
	77.10	0.30	0.30	100
	77.40	0.70	0.60	100
	78.10	0.50	—	
	78.60	1.10	0.90	81.8
	79.70	0.70	0.70	100
	80.40	0.60	0.70	1.40
	80.90	1.10	1.10	100
	82.00	1.20	1.10	91.6
	83.20	0.90	0.70	77.7
	84.10	0.90	1.00	111.1
	85.00	1.40	1.40	100
	86.40	2.00	2.00	100
	88.40	3.10	3.10	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and interbedded grey fine grained tuffaceous sandstone with grey and minor dark grey siltstone and rare shale.	minor quartz and carbonate veins all small.		core extensively broken, in some places to rubble	trace pyrite in veins	tr
				79.3 B @ 51° (ss).		
				82.8 B @ 33° (ss)		
				86.8 B @ 45° (sh/ss)		
				89.7 B @ 73° (ss/sh)		

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH Rec 45

LOGGED BY J.D. CRIMEEN FROM 75 TO 90 DATE 30/1/83 PAGE 6 OF 23

422312

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
91.50	2.20	2.20	100
93.70	1.30	1.30	100
95.00	2.40	2.40	100
97.40	0.80	0.80	100
98.20	1.10	1.10	100
100.30	2.70	2.50	92.5
103.00	3.00	3.00	100

LOST CORE

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	interbedded and intercalated light grey and grey fine grained tuffaceous sandstone and siltstone (some black shale and dark grey siltstone	common small and smooth disrupted quartz and carbonate veins		minor disruption massive sandstone to 91.0m.	Minor pyrite disseminated in quartz / carbonate vein	•
		93.0 quartz / siderite / ankerite veins, minor brecciated sediment to 93.4 m.		top contact @ 47°	Vein contains pyrite 2%	2%
		97.4 common quartz / siderite veins over 1.3m commonly disrupted and with sediment breccia @ 43°				
				99.0 B @ 67° (ss).		
				101.9 B @ 75° (sa/ss)		
				103.7 B @ 85° (sa/ss)		
				105.1 B @ 71° (ss/sa)		

SCALE 1:100 (1cm = 1 m)

422313

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH Rec 45

LOGGED BY J.D. CRIMEEN FROM 90 TO 105 DATE 30/1/85 PAGE 7 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	106.00	1.90	1.90	100
	107.90	2.80	2.80	100
	110.70	1.30	1.30	100
	112.00	3.00	3.00	100
	115.00	1.60	1.60	100
	116.60	2.20	2.20	100
	118.80	3.10	3.10	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	interbedded and intercalated light grey and grey (units have slight green tinge - alteration?) fine grained feldspathic sandstone with siltstone.	moderate small smooth and disrupted quartz / calcite veination.		moderate disruption 106.2 B @ 83° (ss) massive sandstone	minor pyrite on small patches in beds.	
				111.0 B @ 82° (ss/sw)		
				113.4 B @ 75° (ss/sw)		
				114.9 B @ 77° (ss)		
				117.4 B @ 70° (ss/sw)		
	118.0 beginning of purple units. Start of MAGNETIC UNIT.	in purple units small smooth green, chlorite? / carbonate veins.				
				119.7 B @ ? 47° (ss)		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46

LOGGED BY J.D. GRIMSEN FROM 105 TO 120 DATE 30/1/83 PAGE 8 OF 23

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
121.90	3.10	3.00	96.7
125.00	3.10	3.10	100
128.10	3.00	3.00	100
131.10	3.20	3.10	96.8
134.30	3.10	3.10	100

121 122 123 124 125 126 127 128 129 130 131 132 133 134 135

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

DESCRIPTION

interbedded and intercalated magnetic purple siltstone and light purple - green/grey fine grained magnetic tuffaceous sandstone.
Visible haematite detrital grains in sandstone - weathered magnetite

ALTERATION

numerous small and smooth quartz / calcite and calcite / chlorite veins.

STRUCTURE

minor contortion and disruption

121.4 B@ 60° (ss/sa)

123.6 B @ 54° (ss/sa)

125.5 B @ 57° (ss).

127.7 B @ 45° (sa/ss)

129.7 B @ 55° (ss/sa)

132.0 B @ 57° (ss).

122.3 B @ 53° (ss/sa).

MINERALISATION

trace Pyrite with calcite veins

422315

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RSE 45.

LOGGED BY J D GRIMEEN FROM 120 TO 135 DATE 30/1/83 PAGE 9 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	137.40	3.10	3.10	100
	140.50	1.50	1.50	100
	142.00	3.00	3.00	100
	145.00	3.00	3.00	100
	148.00	0.80	0.70	87.5
	148.80	2.20	2.20	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	interbedded and intercalated purple magnetic siltstone and light green-grey and purple fine grained feldspathic sandstone (magnetic)	numerous small smooth quartz / calcite / chlorite veins		minor contortion and disruption	trace pyrite with veins	tr
				136.4 B @ 62° (ss/sw)		
				137.8 B @ 55° (ss)		
				139.8 B @ 57° (ss/ftd sw)		
				142.4 B @ 62° (ss)		
				145.4 B @ 60° (sw/ss)		
	147.0 units non magnetic or sporadic weakly magnetic from here down			147.4 B @ 56° (ss/sw)		
				149.4 B @ 50° (sw/ss)		

42236

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RGE 42

LOGGED BY J.D. CRIMEEN FROM 135 TO 150 DATE 30/1/83 PAGE 10 OF 23

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
151.00	3.00	3.00	100
154.00	3.00	3.00	100
157.00	3.00	3.00	100
160.00	3.00	3.00	100
163.00	3.00	3.00	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

DESCRIPTION

interbedded and interlaminated purple and green-grey siltstone and purple and green-grey fine grained and minor medium-grained tuffaceous sandstone. Coarser units - greywacke? Units weakly and sporadically magnetic to 153.0m. From 153.0 all units magnetic

ALTERATION

numerous small smooth quartz / calcite veins. numerous chlorite veinlets in green units.

163.4 quartz / siderite vein with haematite remobilised from wallrock?

STRUCTURE

minor contortion and disruption unit well bedded.

151.2 B@ 54° (ss/sa).

153.4 B@ 66° (ss).

155.8 B@ 53° (ss)

157.8 B@ 40° (ss/sa)
fine ↑
coarse ↓

160.0 B@ 46° (ss/sa).

162.0 B@ 44° (ss/sa).

MINERALISATION

trace pyrite with veins

VISUAL PERCENTAGE MINERALISATION

tr.

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 45

LOGGED BY Km FROM 150 TO 165 DATE 31/1/83 PAGE 11 OF 22

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	166.00	2.70	2.70	100
	168.70	2.10	2.10	100
	170.80	3.10	3.10	100
	173.90	3.10	3.10	100
	177.00	3.10	3.10	100

166
167
168
169
170
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178
179
180

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	interbedded and intercalated purple siltstone and purple and green-grey fine-grained and minor medium-grained tuffaceous sandstone	minor quartz / calcite veination		minor disruption and contortion	barren	
				167.2 B @ 48° (ss/sa).		
				169.3 B @ 40° (ss/sa)		
				171.5 B @ 53° (ss/sa).		
				173.6 B @ 47° (ss/sa).		
				175.0 B @ 55° (ss).		
				174.8 B @ 56° (ss/sa)		
				178.2 B @ 52° (ss).		
				179.8 B @ 52° (ss/sa).		

422318

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 45

LOGGED BY I.D. CRIMEEN FROM 165 TO 180 DATE 31/1/83 PAGE 12 OF 23

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	180.10	1.60	1.60	100		interbedded and intercalated purple, green-grey and minor light purple grey Siltstone and fine grained tuffaceous sandstone all units magnetic	minor Small smooth and disrupted quartz /calcite veination		minor contortion and disruption	barren	
	181.70	3.10	3.10	100					182.1 B @ 44° (ss/sh)		
									184.3 B @ 45° (ss/sh)		
	184.80	3.10	3.10	100							
									186.4 B @ 33° (sh/ss)		
	187.90	3.10	3.10	100					188.4 B @ 37° (sh/ss)		
									190.5 B @ 38° (sh/ss)		
	191.90	3.10	3.10	100					192.6 B @ 44° (ss/sh)		
									194.1 B @ 47° (ss/sh)		
	194.10	3.10	3.10	100							

181 182 183 184 185 186 187 188 189 190 191 192 193 194 195

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 45

LOGGED BY JD CRIMEEN FROM 180 TO 195 DATE 31/1/83 PAGE 13 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	
					196
					197
	197.20	3.10	3.10	100	
					198
					199
					200
	200.30	3.10	3.10	100	
					201
					202
					203
	203.40	3.10	3.10	100	
					204
					205
					206
	206.50	3.10	3.10	100	
					207
					208
					209
	209.60	1.40	1.40	100	210

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	interbedded and intercalated green-grey and minor grey with purple tinge fine grained tuffaceous sandstone and siltstone unit magnetic to 201.9m unit indurated - hornfelsing.	moderate small disrupted quartz / calcite veination moderate chlorite sericite		moderate to heavy disruption common brecciation	minor pyrite and pyrrhotite with veins	
				196.7 B @ 52° (ss/sa)		
				200.0 B @ 48° (ss/sa)		
				201.7 B @ 36° (sa/ss)		
				unit commonly brecciated		
	204.9 m approximately 3metres of weakly magnetic siltstone and sandstone.					
		208.8 quartz / siderite vein colloform texture 240 mm @ 41°				
				209.1 B @ 44° (ss/sa)		

422220

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH KBE HS.

LOGGED BY J D CRIMEEN FROM 195 TO 210 DATE 2/2/83 PAGE 14 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	211.00	3.00	3.00	100
	214.00	3.00	3.00	100
	217.00	2.40	2.40	100
	219.40	3.00	2.80	93.3
	222.40	2.90	2.90	100

211 212 213 214 215 216 217 218 219 220 221 222 223 224 225

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and interbedded green-grey and grey siltstone and fine grained tuffaceous sandstone.	common small (<20mm) smooth and disrupted quartz / calcite veination		moderate disruption	common pyrite with veins and pyrrhotite disseminated and patches in beds. especially from 217.0 m	
				212.3 B @ 50° (sa/ss).		
				214.6 B @ 50° (ss/sa).		
		216.6 quartz / calcite / siderite vein 250mm @ 20°.				
	217.0 units sporadically calcareous here down change to grey and light grey.					
				217.4 B @ 49° (ss/sa)		
				219.7 B @ 61° (ss/sa)		
				222.0 B @ 63° (ss/sa)		
				224.3 B @ 52° (ss/sa).		

42232

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH KBC 45

LOGGED BY JD GRIMEEN FROM 210 TO 225 DATE 1/2/83 PAGE 15 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	225.30	2.90	2.90	100
	228.20	3.10	3.10	100
	231.30	2.80	2.80	100
	234.10	2.00	2.00	100
	236.10	1.40	1.40	100
	237.50	1.90	1.90	100
	239.40	2.00	2.00	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Interbedded and intercalated light grey and green siltstone and fine grained tuffaceous sandstone slight hornfelsing most units calcareous.	common small (≤10mm) smooth and disrupted quartz/calcite veins.		moderate disruption and contortion	common disseminated and patches pyrrhotite in most beds	4%
				227.1 B @ 63° (si)		
				228.6 B @ 52° (ss/sa).		
				230.7 B @ 50° (ss).		
				232.2 B @ 45° (ss).		
				234.5 B @ 57° (ss)		
				237.0 B @ 52° (ss/sa)		
				238.1 B @ 43° (ss/sa)		
				239.7 B @ 47° (ss/sa)		

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH PCE 45

LOGGED BY JD GRIMEEN FROM 235 TO 260 DATE 1/2/83 PAGE 16 OF 23

42222

265

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	241.40	2.40	2.40	100
	243.80	3.10	3.10	100
	246.90	3.10	2.90	93.5
	250.00	2.50	2.50	100
	252.50	3.00	3.00	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL

DESCRIPTION

interbedded and intercalated grey and light grey siltstone and fine grained tuffaceous sandstone unit slightly hornfelsed, most units calcareous.

ALTERATION

common small, smooth and disrupted quartz / calcite veins.

GRAPHIC LOG

STRUCTURE

moderate to heavy disruption and contortion.

243.0 B @ 57° (ss/sa).

244.6 B @ 61° (ss/sa)

246.2 B @ 53° (ss/sa)

248.6 B @ 47° (ss/sa).

250.1 B @ 53° (ss/sa)

251.7 B @ 55° (ss/sa)

254.3 B @ 44° (ss/sa)

MINERALISATION

minor pyrite in calcite veins

VISUAL PERCENTAGE MINERALISATION

tr.

422323

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH TKS 45

LOGGED BY J D CRIMEEN FROM 240 TO 255 DATE 1/2/83 PAGE 17 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	255.50	3.00	3.00	100
	258.50	2.80	2.80	100
	261.30	1.80	1.70	94.4
	263.10	2.90	2.90	100
	266.00	1.70	1.70	100
	267.70	3.00	3.00	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	interbedded and intercalated light grey and grey siltstone and fine grained tuffaceous sandstone most units calcareous ; slight hornfelsing	minor small disrupted quartz /calcite veins.		moderate disruption and contortion. 256.2 B@ 54° (sa/ss) 259.1 B @ 49° (ss/sa) 261.0 B @ 49° (ss/sa) 263.0 B@ 53° (ss/sa) 264.7 B @ 47° (ss/sa) 266.5 B@ 51° (ss/sa) 268.5 B @ 52° (ss/sa).	trace Pyrite and Pyrrhotite in veins	tr.

SCALE 1:100 (1cm = 1 m)

422324

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH DBe 45

LOGGED BY J.D. CRIMEEN FROM 255 TO 270 DATE 1/7/88 PAGE 18 OF 23

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
270.70	1.10	1.10	100
271.80	2.10	2.10	100
273.90	1.70	1.50	88.2
275.60	3.00	3.00	100
278.60	3.20	3.20	100
281.80	3.00	3.00	100
284.50	3.10	3.10	100

271 272 273 274 275 276 277 278 279 280 281 282 283 284 285

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL

DESCRIPTION

interbedded and intercalated light grey and green fine grained tuffaceous sandstone and siltstone 70%ss (30% st. unit slightly hornfelsed. Minor calcareous units.

ALTERATION

minor small smooth and disrupted quartz/calcite veins.

GRAPHIC LOG

STRUCTURE

moderate disruption

273.0 B @ 52° (ss/sa).

276.5 B @ 50° (ss).

280.9 B @ 54° (st/ss)

283.9 B @ 62° (ss)

MINERALISATION

barren.

VISUAL PERCENTAGE MINERALISATION

42232

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KGL 45

LOGGED BY JD CRIMEEN FROM 270 TO 285 DATE 1/2/83 PAGE 19 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	287.90	1.60	1.60	100
	289.50	2.20	2.20	100
	291.70	2.80	2.80	100
	294.50	2.60	2.80	100
	297.50	3.10	3.10	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Interbedded and intercalated, slightly hornfelsed light grey and grey siltstone and fine grained tuffaceous sandstone. Occasional unit calcareous. 70% sl / 30% ss.	minor small smooth quartz/calcite veins, numerous larger veins from 292.4 up to 200 mm		moderate disruption	moderate Pyrrhotite disseminated and in veins and with veins trace Pyrite with veins mostly from 295.0 m (i.e. in calc units)	1%
				287.4 B @ 44° (ss/sl)		
	289.5 40cm oolitic? calcareous unit. oolites now fused together, each ~ 1mm² diameter?			289.5 B @ 38° (ss)		
				291.8 B @ 49° (ss)		
				293.7 B @ 59° (ss/sl)		
	295.0 strongly calcareous grey siltstone and minor fine grained tuffaceous sandstone.					
				296.0 B @ 59° (ss)		
				297.8 B @ 51° (ss)		
				299.9 B @ 66° (sl)		

42229

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RGC 45

LOGGED BY J.D. GRIMEEN FROM 285 TO 300 DATE 1/2/83 PAGE 20 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE (INTERVAL)	CORE RECOVERY	PERCENT RECOVERY
	300.40	3.10	3.10	100
	303.60	2.90	2.90	100
	306.40	3.10	3.10	100
	309.60	3.10	3.10	100
	312.60	3.10	3.10	100

301 302 303 304 305 306 307 308 309 310 311 312 313 314 315

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	slightly hornfelsed interbedded and intercalated mostly calcareous grey and light grey siltstone and fine grained tuffaceous sandstone.	moderate. Small disrupted quartz / calcite veination		minor disruption	moderate Pyrrhotite in veins and disseminated	2%
				302.3 B @ 67° (ss).		
				304.4 B @ 53° (ss).		
				306.5 B @ 40° (ss/sa)		
				308.3 B @ 55° (sa/ss)		
				310.5 B @ 56° (ss/sa)		
				312.6 B @ 52° (ss/sa)		
				314.4 B @ 55° (ss).		

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 45.

LOGGED BY JD CRIMEEN FROM 300 TO 315 DATE 1/2/83 PAGE 21 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	315.70	3.10	3.10	100
	318.80	3.10	3.10	100
	321.90	3.10	3.10	100
	325.00	3.00	3.00	100
	328.00	3.00	3.00	100

316 317 318 319 320 321 322 323 324 325 326 327 328 329 330

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	slightly hornfelsed interbedded and intercalated grey and light grey sporadically calcareous (decreasing downhole) siltstone and fine grained tuffaceous sandstone.	minor small disrupted quartz / calcite veination		minor disruption 316.3 B @ 70° (ss/sa) 318.8 B @ 70° (ss/sa). 321.0 B @ 61° (ss/sa). 223.8 B @ 66° (sa/sa) 327.4 B @ 56° (se/sa). 329.7 B @ 57° (sa).	moderate pyrrhotite in veins. disseminated and with veins	<1%

422225

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RGC 45

LOGGED BY J D CRIMEEN FROM 315 TO 330 DATE 1/2/83 PAGE 22 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	331.00	3.00	3.00	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	slightly hornfelsed. interbedded and intercalated light grey fine grained (weakly and sporadically calcareous) tuffaceous sandstone with minor grey siltstone	minor Quartz/Calcite Veination		moderate disruption	minor Pyrite and Pyrrhotite with veins	
				332.6 B@51° (sn)		
334.0	END OF HOLE.					

331
332
333
334
335

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 45

LOGGED BY JD CRIMEEN FROM 331 TO 334 DATE 1/2/83 PAGE 23 OF 23

42329

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
21m	BLD	270		30	355	7.0	4		145							
22.90	BLD	295		15	255	4.0	4		130							
25.60	BLD	175		10	290	5.0	4		125							
30 m																

42230

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 45

ASSAYED BY ANALABS FROM 15m TO 30m DATE 12/1/83 PAGE 1 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	175		10	285	BLD	3		135							
32m	BLD	170		20	260	BLD	4		125							
34m	BLD	140		5	245	BLD	BLD		130							
37.20	BLD	155		10	250	BLD	BLD		135							
40m	BLD	150		5	240	BLD	BLD		135							422331
43m	BLD	135		15	240	BLD	9		150							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS FROM 30 TO 45 DATE 13/1/83 PAGE 2 OF 22

45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
45.30	BLD	130		140	355	0.5	95		105							
49 m	89	1550		400	1350	BLD	38		335							
51.30	BLD	140		50	280	BLD	8		110							
54.30	BLD	175		30	250	BLD	6		130							
57.10	BLD	100		25	210	BLD	11		115							

422332

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS FROM 45m TO 60 DATE 13/1/83 PAGE 3 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
60.20	BLD	245		25	270	0.5	13		145							
62.80	10	180		100	275	BLD	20		125							
65.50	BLD	170		5	235	BLD	8		110							
68.50	9	175		10	240	BLD	19		110							
71.80	BLD	115		15	190	BLD	18		105							422333
75m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS FROM 60m TO 75m DATE 13/1/83 PAGE 4 OF 22

276

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
75m	BLD	210		20	190	1·5	12		125							
78·10	5	100		10	145	BLD	12		125							
82m	BLD	170		15	155	BLD	7		145							
86·40	11	115		90	420	BLD	20		105							
88·40																

422334

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 4-5

ASSAYED BY ANALABS FROM 75m TO 90m DATE 13/1/83 PAGE 5 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	120		10	225	BLD	21		110							
91.50	7	105		365	1800	1.0	17		105							
93.70	49	70		2000	3900	6.0	53		60							
95m	18	125		380	6300	4.0	400		55							
97.40	24	85		145	500	0.5	44		110							
100.30	BLD	110		20	180	BLD	14		105							
103 m	BLD	150		25	180	BLD	8		110							

422335

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS FROM 90m TO 105m DATE 13/1/83 PAGE 6 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
106 m	BLD	130		20	160	BLD	9		105							
107.90	BLD	120		5	110	1.0	5		110							
110.70	BLD	120		BLD	160	BLD	8		115							
112 m	5	160		10	170	BLD	8		120							
115 m	BLD	210		60	230	1.0	29		125							
118.80																

422336

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS FROM 105 m TO 120 m DATE 13/1/83 PAGE 7 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	105		10	170	BLD	2		105							
121.90	BLD	90		10	145	0.5	1		90							
125m	BLD	105		10	170	0.5	4		100							
128.10	BLD	195		15	125	BLD	26		95							
131.20	BLD	115		5	160	0.5	4		95							422331
134.30																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH KEE 45

ASSAYED BY ANALABS FROM 120 m TO 135 m DATE 13/1/83 PAGE 8 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
135	BLD	135		5	175	0.5	BLD		95							
137.40	BLD	160		5	190	BLD	1		100							
140.50	BLD	195		BLD	180	1.0	BLD		90							
145m	BLD	155		10	180	1.0	1		95							
148.80																

135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150

42238

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RbE 45

ASSAYED BY ANALABS FROM 135 m TO 150 m DATE 13/1/83 PAGE 9 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	80		10	155	1.0	12		95							
151 m	BLD	40		10	205	2.0	16		95							
154 m	BLD	105		10	180	BLD	3		95							
157 m	BLD	135		BLD	175	0.5	1		105							
160 m	BLD	140		BLD	195	1.0	7		105							
163 m	5	80		10	185	1.0	1		95							

422339

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS FROM 150 m TO 165 m DATE 13/1/83 PAGE 10 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
166 m	BLD	155		10	175	BLD	BLD		90							
170·80	BLD	75		5	180	0·5	BLD		95							
173·90	BLD	145		BLD	190	BLD	10		95							422340
177 m	BLD	140		5	175	0·5	BLD		100							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS FROM 165 m TO 180 m DATE 13/1/83 PAGE 11 OF 22

283

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
180.10	BLD	45		5	155	1·5	BLD		95							
184·80	BLD	135		5	180	1·0	BLD		85							
187·90	BLD	275		10	190	BLD	BLD		95							
191 m	BLD	120		BLD	165	0·5	BLD		90							
194·10																

422341

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 45

ASSAYED BY ANALABS FROM 180 TO 195 m DATE 13 / 1 / 83 PAGE 12 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	445		BLD	190	BLD	BLD		95							
197.20	BLD	75		BLD	170	0.5	BLD		95							
200.30	BLD	645		5	145	0.5	BLD		95							
203.40	BLD	130		15	150	BLD	8		90							
206.50	15	60		15	175	BLD	21		90							
209.60																

422342

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH R6E 45

ASSAYED BY ANALABS FROM 195 TO 210 DATE 13/1/83 PAGE 13 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	30		BLD	160	BLD	6		85							
211 m	BLD	65		15	140	BLD	1		85							
214 m	BLD	130		25	225	BLD	22		105							
217 m	BLD	130		75	180	BLD	14		75							
219.40	BLD	95		40	160	BLD	10		65							
222.40	BLD	145		25	135	BLD	20		60							422343

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS FROM 210 m TO 225 m DATE 13/1/83 PAGE 14 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
225.30																
	BLD	140		15	135	0.5	23		65							
228.20																
	BLD	75		25	115	BLD	1		60							
231.30																
	BLD	60		40	95	BLD	1		55							
234.10																
	BLD	70		20	120	BLD	1		65							
236.10																
	BLD	100		5	160	BLD	1		75							422341
239.40																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 45

ASSAYED BY ANALABS FROM 225 TO 240 DATE 13/1/83 PAGE 15 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	75		15	140	BLD	1		75							
241·40	BLD	95		10	135	BLD	1		85							
243·80	BLD	120		10	170	BLD	16		85							
246·90	BLD	110		BLD	155	BLD	BLD		85							
250 m	BLD	115		5	165	BLD	1		85							
252·80	BLD	115		BLD	160	BLD	BLD		90							

423345

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS FROM 240 m TO 255 m DATE 13/1/83 PAGE 16 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
255.50	BLD	135		20	165	0.5	1		90							
258.50	BLD	135		10	185	BLD	BLD		90							
263.10	BLD	135		20	155	BLD	BLD		85							
266 m	5	105		5	140	BLD	BLD		75							422346

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS FROM 255 m TO 270 m DATE 13/1/83 PAGE 17 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
270.70	BLD	115		5	145	BLD	BLD		105							
275.60	BLD	130		5	165	BLD	1		105							
278.60	BLD	135		5	160	BLD	BLD		120							
281.80	BLD	125		5	155	BLD	BLD		105							422347
284.80																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RGE 45

ASSAYED BY ANALABS FROM 270 TO 285 DATE 13/1/83 PAGE 18 OF 22

290

286 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
	BLD	135		BLD	160	BLD	16		110							
287.90	BLD	135		5	160	BLD	BLD		105							
291.70	BLD	180		15	145	BLD	12		105							
294.50	BLD	170		20	105	BLD	12		85							422348
297.30	BLD	140		55	160	0.5	13		80							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS FROM 285 TO 300m DATE 13/1/83 PAGE 19 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
300.40	BLD	115		15	120	0.5	7		70							
303.50	BLD	155		10	195	BLD	8		85							
306.40	BLD	90		10	130	BLD	1		70							
309.50	BLD	80		5	120	BLD	24		70							
312.60	BLD	95		10	115	BLD	1		75							

422349

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RbE 45

ASSAYED BY ANALABS FROM 300 m TO 315 m DATE 13/1/83 PAGE 20 OF 22

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG						SAMPLE NUMBER
315·70	BLD	135		15	175	BLD	BLD		80							
318·80	BLD	105		10	145	BLD	BLD		85							
321·90	BLD	125		5	165	BLD	13		140							
325 m	BLD	135		15	155	BLD	1		130							
328 m	BLD	135		5	160	BLD	11		340							422350

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS FROM 315m TO 330m DATE 13/1/83 PAGE 21 OF 22

330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	SG							SAMPLE NUMBER
331m 334m	BLD	105		5	160	BLD	BLD		305								422351

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 45

ASSAYED BY ANALABS Pty Ltd FROM 330 TO 345m DATE 13/1/83 PAGE 22 OF 22

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422352

DRILLHOLE LOG

R.B.E. 46

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

SCALE 1:100 (1cm = 1 m)

422353

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBC 46

LOGGED BY J.D. CRIMEEN FROM 0 TO 15 DATE 18/1/83 PAGE 1 OF 44

DRILL ADVANCE

LITHOLOGY

422354

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
						triconed through glacial till					
	25.00	1.10	1.00	90.9	25.00	Soft weathered brown, purple grey and khaki colored interbedded and intercalated Siltstone	iron staining along fractures and with the numerous siderite veinlets.		unit well bedded but heavily disrupted and contorted and common microfaulting. bedding trends shallow to c.a.	trace pyrite with siderite veinlets	tr
	26.10	2.40	2.40	100							
	28.50	1.40	1.30	92.8							
	29.90	1.50	1.50	100							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBC 46

LOGGED BY S.D. CRIMEEN FROM 15 TO 30 DATE 18/1/83 PAGE 2 OF 44

DRILL ADVANCE

LITHOLOGY

422355

LOST CORE	DEPTH	DRILL ADVANCE (INTERVAL)	CORE RECOVERY	PERCENT RECOVERY
	31.40	1.60	1.60	100
	33.00	1.20	1.00	83.3
	34.20	1.70	1.50	88.2
	35.90	1.60	1.10	68.7
	37.50	1.40	1.50	107.1
	38.90	1.60	1.60	100
	40.50	1.50	1.50	100
	42.00	3.00	2.95	98.3
	45.00	1.50	1.50	100

SCALE 1:100 (1cm = 1 m)

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	weathered khaki colored interbedded and intercalated siltstone and fine grained tuffaceous sandstone.	common iron staining on fractures and veins. common quartz veining especially where referred to at left and below.		Siltstones well bedded (laminated) unit mostly highly disrupted, intercalated mixture unit commonly fractured	trace galena and sphalerite with few quartz veinlets	tr
				32.7 B @ 12° (ss)		
	33.4 0.9 metres of grey and dark grey tuffaceous sandstone and siltstone intruded by quartz veins, preserving initial color of units.	approximate total of 0.1m of quartz veining within the unit.		unit mainly course rubble		
	37.8 1.1 metres of grey and dark grey siltstone and tuffaceous sandstone intruded by quartz veins	approximate total of 0.4m of quartz veining within the unit.				
				41.4 B @ 34° (ss/sa)		
				43.0 B? @ 16° (ss)		

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH KEEL 2

LOGGED BY J.D. CRIMEEN FROM 30 TO 45 DATE 18/1/83 PAGE 3 OF 44.

422356

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	46.50	1.50	1.60	106.6
	48.00	1.60	1.50	100
	49.50	1.50	1.50	100
	51.00	1.50	1.60	106.6
	52.50	1.50	1.80	120
	54.00	1.50	1.55	103.3
	55.50	1.50	1.50	100
	57.00	1.60	1.60	100
	58.60	1.40	1.40	100
	60.00	1.50	1.50	100

SCALE 1:100 (1cm = 1 m)

INTERVAL

DESCRIPTION

interbedded and intercalated khaki siltstone and fine grained tuffaceous sandstone

46.9 shattered siltstone beds forming angular pellets in tuffaceous sandstone.

56.3 unit grades into grey and dark grey unit with minor calations and beds of carbonaceous black shale to 61.0 m.

ALTERATION

iron staining on fractures, and on quartz veins which are numerous though small

GRAPHIC LOG

STRUCTURE

unit well bedded but heavily disrupted ~~and~~

46.1 B @ 22° (ss/sa)

47.8 B @ 23° (ss/sa)

51.7 B @ 18° (ss)

core commonly rubble.

57.2 B @ 13° (ss/blk sa)

MINERALISATION

barren.

VISUAL PERCENTAGE MINERALISATION

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KCE 46.

LOGGED BY J.D. CRIMEEN FROM 45 TO 60 DATE 18/1/83 PAGE 4 OF 44

299

DRILL ADVANCE

LITHOLOGY

422357

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	61.50	1.50	1.50	100
	63.00	1.50	1.50	100
	64.50	1.50	1.50	100
	66.00	1.50	1.50	100
	67.50	1.50	1.50	100
	69.00	1.50	1.50	100
	70.50	1.50	1.50	100
	72.00	1.50	1.50	100
	73.50	1.50	1.50	100
	75.00	1.50	1.50	86.6

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and interbedded khaki (with greenish tinges in parts) siltstone with fine grained tuffaceous sandstones	iron stained quartz or siderite veinlets common		unit moderately disrupted; sandstones more massive than above. unit virtually massive tuffaceous sandstone with minor siltstone calations from 61.5 to 69.0 m	barren	
				69.0 B @ 20° (ss/tuf ss)		
	71.4 grey units intercalated and interbedded with khaki units - grey becoming more dominant down hole.			71.5 B? @ 10° (tuf ss/ss).		
				72.8 B? @ 19° (ss)		
					73.9 minor pyrite with quartz vein	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KEL 40

LOGGED BY J D CRIMEEN FROM 60 TO 75 DATE 8/1/83 PAGE 5 OF 44

DRILL ADVANCE

LITHOLOGY

422358

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	76.50	1.60	1.50	86.6
	78.00	1.50	1.60	106.6
	79.50	1.50	1.50	100
	81.00	1.50	1.50	100
	82.50	1.60	1.60	100
	84.00	1.50	1.50	100
	85.50	1.50	1.40	93.3
	87.00	1.50	1.50	100
	88.50	1.50	1.40	93.3
	90.00	1.50	1.60	106.6

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and interbedded buff siltstone with fine to medium grained tuffaceous sandstone and grey and dark grey fine grained tuffaceous sandstone and siltstone with minor carbonaceous black shale. buff colored units altered as per RDE 25/38? ~~[illegible]~~ different colored units commonly mixed especially grey carbonaceous laminations in buff units	numerous small quartz and calcite and siderite veins ~~[illegible]~~		heavy disruption core rubble in places. common microfaulting.	trace pyrite in quartz veins minor disseminated grains of pyrite in carbonaceous units	
				77.9 B @ 15° (ss)		
				81.3 B @ 40° (ss)		
	86.0 weathered soft green-grey medium grained gabbro? (sandstone?) 1.4m with common wisps of carbonaceous material.				86.0 trace specks [illegible] of galena? specks of magnetite?	Tr

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH YBC 46

LOGGED BY J.D. CRIMEEN FROM 75 TO 90 DATE 19/1/83 PAGE 6 OF 44

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	91.50	1.50	1.50	100
	93.00	1.50	1.50	100
	94.50	1.50	1.40	93.3
	96.00	1.20	1.20	100
	97.20	3.10	3.20	103.2
	100.80	3.10	3.05	98.3
	103.40	3.10	3.00	96.7

LITHOLOGY

422359

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and interbedded buff siltstone and fine grained tuffaceous sandstone with minor grey and dark grey siltstone and fine grained tuffaceous sandstone and carbonaceous black shale	common iron stained quartz and siderite veinlets also common replacement - style siderite within sandstone beds.		unit heavily disrupted and contorted with commonly rubble.	carbonaceous units barren	<1%
				91.50 B @ 21° (ss)		
				96.0 B? @ 17° (ss)		
	96.6 approximately 1.3 metres of carbonaceous black shale, siltstone and tuffaceous sandstone					
		98.3 disrupted quartz and siderite veins with sediment fragments.		98.6 B @ 41° (ss)		
				100.6 B @ 32° (ss)		
	104.3 0.4m interbedded / intercalated band of black carbonaceous shale and green - grey siltstone					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RG 246

LOGGED BY J.D. GRIMSEN FROM 90 TO 105 DATE 19/1/83 PAGE 7 OF 44

422360

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	106.50	2.70	2.10	77.7
	109.20	3.30	1.50	45.4
	112.50	2.30	0.70	30.4
	114.80	0.80	0.40	50
	115.50	1.10	1.10	100
	116.60	1.90	2.00	105.2
	118.50	3.00	3.00	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	106.0 grey and dark grey siltstone and fine grained tuffaceous sandstone with buff and grey siltstone pellets. and carbonaceous black shale units interbedded and intercalated.	occasional siderite and quartz veins. Common siderite replacement style through some buff tuffaceous sandstones.		heavy disruption and contortion. common microfaulting. core only rubble in some places especially between 109.7 and 114.8 m bedding around 0 to ca	shale units pyritic, minor pyrite along edges of siderite alteration zones	2%
					112.5 strongly oxidized, iron stained pyritic and to 114.8 m	10%
		115.5 zone of siderite and quartz veins, disrupted, to 116.6				
	116.6 intercalated and interbedded buff and white and minor grey siltstone and tuffaceous sandstone					

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RGE 46

LOGGED BY J.D. CRIMSEN FROM 105 TO 120 DATE 19/1/83 PAGE 8 OF 44

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE (INTERVAL)	CORE RECOVERY	PERCENT RECOVERY
	121·50	3·00	3·00	100
	124·50	2·20	2·10	95·4
	126·70	0·80	0·85	106·2
	127·50	3·00	3·00	100
	130·50	3·00	3·00	100
	133·50	3·00	3·00	100

Depth scale: 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135

LITHOLOGY

422361

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and minor interbedded grey and dark grey siltstone and fine grained tuffaceous sandstone with common pellets of buff and grey siltstone. minor buff siltstone and tuffaceous sandstone.	occasional quartz vein. common siderite vein and disseminated through buff units		heavy disruption and contortion	Pyrite with quartz and siderite veins.	
				intense soft sediment deformation and brecciation contact with intermixing between units.	126.5 common Pyrite with veins	
				mixed contact.		
127.8	mafic / ultramafic. buff and green. Slightly foliated. fine to medium grained altered ultramafic or mafic with inclusions and partings of carbonaceous sediment. typical section of unit contains common (up to 5%) distinct (less than 1mm²) brown grains. purple-brown foliated matrix around anhedral white/buff. soft. weathered feldspars. occasional talc? or chlorite parting → ultramafic.	occasional quartz and siderite veins		unit commonly brecciated and partly foliated ~ 50°.	barren.	
	133.6 coarse white brecciated fragments.					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH Rec. 46

LOGGED BY J D CRIMEEN FROM 120 TO 135 DATE 19/1/88 PAGE 9 OF 44

DRILL ADVANCE | **LITHOLOGY** 422362

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	136.50	3.00	3.00	100
	139.50	3.00	3.05	101.6
	142.50	3.00	3.00	100
	145.50	3.00	3.00	100
	148.50	3.00	3.00	100

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	olive green weathered ultramafic / mafic intercalated with buff siltstone and common partings of carbonaceous black shale. note weathering affect decreasing down hole to 135.8 m darker green, fresher, hard rock, mineral crystal hard to detect. minor grains of magnetite present. colour indicates absorption of carbonaceous shale unit. note presence of very common, very fine wisps of pinky-white clay?	occasional ankerite and siderite veins.	Seds Seds	unit heavily brecciated and disrupted - unit massive	minor pyrite in sediment clasts	Tr.
			Sed	141.3 contact @ 47°		
	144.7 infilling into soft sediment deformation and brecciation leaving only carbonaceous shale partings.					
			Sed.			

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH [illegible]

LOGGED BY J.D. CRIMEEN FROM 135 TO 150 DATE 19/1/83 PAGE 10 OF 44

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	151·50	3·00	2·95	98·3
	154·50	3·00	3·00	100
	157·50	3·00	3·00	100
	160·50	3·00	3·10	103·3
	163·50	3·00	3·00	100

LITHOLOGY

422363

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	dark olive green, altered, fine to medium grained mafic / ultramafic. few carbonaceous shale partings	few quartz veins.		massive unit, minor brecciation	barren.	
156·3				?contact sharp @ [illegible]°		
	mixed sediments intercalated and minor interbedded green grey, light grey, dark grey and buff siltstone and minor carbonaceous black shale and green-grey grey and buff fine grained tuffaceous sandstone	numerous iron stained siderite veins and few quartz veins		heavy disruption	barren.	
				159·0 B? @ 51° (sh/ss)		
				161·3 B @ 47° (ss)		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH Kec 46

LOGGED BY J.D. CRIMEEN FROM 150 TO 165 DATE 19/1/83 PAGE 11 OF 44.

422364

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	166.50	3.00	3.10	103.3
	169.50	2.50	2.50	100
	172.00	3.10	3.05	98.3
	175.10	3.10	3.10	100
	178.20	3.10	3.00	96.7

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated grey and buff-grey siltstone and fine grained tuffaceous sandstone, also minor ~~deformation~~ deformed calations and clasts of interbedded grey and dark grey siltstone and black shale. main zone at 169.9 to 170.6 m.	minor siderite veinlets especially with the darker units		and locally crenulated, contacts between massive sandstone and siltstone. darker units have undergone soft sediment deformation	~~minor~~ pyrite with siderite veins	<1%

166 167 168 169 170 171 172 173 174 175 176 177 178 179 180

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH REC 46

LOGGED BY J.D. CRIMEEN FROM 165 TO 180 DATE 19/1/83 PAGE 12 OF 44

DRILL ADVANCE

LITHOLOGY

422365

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	181.30	3.10	3.00	96.7
	184.40	3.00	3.00	100
	187.40	3.10	3.00	96.7
	190.50	3.00	3.00	100
	193.50	3.00	3.00	100

181 182 183 184 185 186 187 188 189 190 191 192 193 194 195

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated buff and buff-grey fine grained sandstone with buff and grey siltstone and several deformed clelations and bands of grey and dark grey siltstone with carbonaceous black shale. equal amounts (buff / grey) to 187.4 then predominantly buff with black clelations less than 0.1 metres	iron-stained veins. accasional quartz and siderite		unit beards disrupted and contorted Shearing / fracturing steep to cia	common pyrite with quartz / siderite veins	< 1%
	188.5 unit predominantly grey to 191.2 m.					
	191.2 unit light grey and buff.					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH REL 43

LOGGED BY J.D. CRIMEEN FROM 180 TO 195 DATE 19/1/83 PAGE 13 OF 44

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DRILL ADVANCE

LITHOLOGY

422366

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	196.50	3.00	3.05	101.6
	199.50	3.00	3.00	100
	202.50	3.00	3.10	103.3
	205.50	2.90	2.90	100
	208.40	3.10	3.10	100

196 197 198 199 200 201 202 203 204 205 206 207 208 209 210

INTERVAL | **DESCRIPTION** | **ALTERATION** | **GRAPHIC LOG** | **STRUCTURE** | **MINERALISATION** | **VISUAL PERCENTAGE MINERALISATION**

DESCRIPTION

intercalated and interbedded grey and dark grey siltstone and black shale. also (usually in separate zones. except for some calations of siltstone) buff siltstone and fine grained ~~sh~~ sandstone.
(buff siltstone and sandstone from 195.5 to 197.4 m)

202.5 massive tuffaceous sandstone to 205.3 m.

209.9 start of buff unit

ALTERATION

Common quartz / siderite vein : intermately mixed with grey units in disrupted style

STRUCTURE

units mostly heavily disrupted.

200.6 B @ 89° (SS)

buff sa
Pyrite in buff sa.
siderite veinlet.
grey units
205.6 B @ 39° (SS)

207.9 B @ 38° (SS)

209.4 B @ 35° (SS)

MINERALISATION

common pyrite with siderite veins | 1%

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KSC 46

LOGGED BY J D CRIMEEN FROM 195 TO 210 DATE 19/1/83 PAGE 14 OF 44

422367

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	211.50	3.00	3.00	100
	214.50	2.50	2.50	100
	217.00	3.00	2.90	96.6
	220.00	3.10	3.10	100
	223.10	3.10	3.00	96.7

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and interbedded grey and dark grey siltstone with carbonaceous black shale. with very minor grey fine grained tuffaceous sandstone. minor (~10%) buff colored tuffaceous sandstone and siltstone with light grey white more common than the buff units.	very common disrupted and fracture fill quartz/siderite		heavy disruption 210.6 B @ 36° (ss)	very common pyrite with quartz/siderite veins	1%
				214.3 B @ 32° (ss)		
				216.0 B @ 50° (ss)		
				218.9 B @ 42° (ss/sh)		
				220.8 B @ 35° (ss/sh)		
				222.7 B @ 42° (ss)		
	224.2 units predominantly light grey.	224.1 quartz/siderite vein 120mm @ 30°				
				225.0 B @ 41° (ss)		

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RKL 46

LOGGED BY J.D. CRIMEEN FROM 210 TO 225 DATE 20/1/83 PAGE 15 OF 44

LITHOLOGY

422368

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	226·20	3·10	3·10	100
	229·80	3·10	3·10	100
	232·40	3·10	3·00	96·7
	235·50	3·00	2·96	98·3
	238·50	3·00	3·00	100

226 227 228 229 230 231 232 233 234 235 236 237 238 239 240

SCALE 1:100 (1cm = 1 m)

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	interclated and interbedded light grey and buff grey with minor dark grey siltstone with fine grained tuffaceous sandstone. with minor carbonaceous black shale.	minor Quartz/siderite veins		moderate disruption 226.5 B @ 03° (ss/sa) 227.9 B @ 38° (ss/sa) 229.3 B @ 38° (ss) 231.3 B @ 22° (ss) 232.7 B@ 17° (ss) 234.1 B @ 28° (ss) 236.2 B@ 31° (ss). 238.4 B @ 22° (ss) 239.7 B@ 28° (ss)	minor pyrite with quartz/siderite	<1%

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH NRC H6

LOGGED BY J.D. CRIMEEN FROM 225 TO 240 DATE 20/1/83 PAGE 16 OF 44

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LITHOLOGY

422369

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	241.50	3.00	2.80	93.3
	244.50	3.00	2.90	96.6
	247.50	1.00	1.00	100
	248.50	2.00	2.00	100
	250.50	3.00	3.00	100
	253.50	3.00	3.00	100

SCALE 1:100 (1cm = 1 m)

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	interbedded and intercalated light grey and light buff grey siltstone with lesser amounts of fine grained tuffaceous sandstone. minor dark grey siltstone and black shale in pellets. calations and beds.	minor quartz / siderite veining mostly small smooth and disrupted.		moderate disruption heavy contortion 242.0 B @ 30° (ss) 243.9 B @ 40° (ss) 246.2 B @ 23° (ss) 248.1 B @ 16° (ss) 250.4 B @ 47° (ss) 252.6 B @ 27° (ss). 254.7 B @ 40° (ss)	minor pyrite with quartz / siderite veins. minor patches in sandstone around veins	<1%

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH 83-6

LOGGED BY J.D. CRIMEEN FROM 240 TO 255 DATE 20/1/83 PAGE 11 OF 44

DRILL ADVANCE

LITHOLOGY

422370

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	256.50	3.00	3.00	100
	259.50	3 00	3.00	100
	262.50	3.00	3.00	100
	265·60	1·50	1·50	100
	267·00	3.10	3.15	101.6

256 257 258 259 260 261 262 263 264 265 266 267 268 269 270

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Interbedded and intercalated light grey with minor grey and dark grey siltstone and lesser amounts of fine grained tuffaceous sandstone.	minor quartz / siderite veining small, smooth and disrupted		moderate disruption and contortion	minor pyrite and trace sphalerite with quartz / siderite veins.	
				256.4 B @ 32° (ss)		
				257.7 B@ 33° (ss)		
				259.6 B @ 26° (ss)		
				261.6 B @ 35° (ss/sa).		
	263.4 from here unit has equal to greater amounts of fine grained tuffaceous sandstone to siltstone.			263.4 B @ 25° (ss/sa) coarse ↑ fine ↓		
				265.2 B @ 30° (ss/sa)		
				266.8 B @ 31° (ss/sa)		
				269.7 B @ 50° (ss/ca)		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RGC 46

LOGGED BY J.D. CRIMEEN FROM 255 TO 270 DATE 24/1/83 PAGE 18 OF 44

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422371

LITHOLOGY

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	270.10	3.10	3.10	100
	273.20	3.10	3.15	101.6
	276.30	3.20	3.15	98.4
	279.50	1.00	0.90	90
	280.50	3.00	2.30	76.6
	283.50	3.00	3.00	100

271 272 273 274 275 276 277 278 279 280 281 282 283 284 285

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	mostly massive fine grained grey tuffaceous sandstone with (~20%) minor grey laminations and beds of siltstone.	minor quartz / siderite small mostly smooth veinlets		Minor disruption and contortion 272.0 B@ 41° 275.8 B @ 41° (SS/Sa) 277.2 coarser B sa ↓ B @ 52°? finer B sa 281.2 B@ 85° (st/sa) Siltstone ↑? Sandstone 282.8 B @ 83° (st/sa) 284.8 coarser B sa finer B sa ↓.	minor pyrite with quartz/siderite	tr

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RSC 46

LOGGED BY J.L. CRIMEEN FROM 270 TO 285 DATE 20/1/93 PAGE 19 OF 44

DRILL ADVANCE | # LITHOLOGY | **422372**

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	286.50	1.60	1.60	100
	288.10	1.90	2.50	131.5
	291.00	6.20	6.15	99.1
	297.20	3.10	3.10	100

286 287 288 289 290 291 292 293 294 295 296 297 298 299 300

INTERVAL

DST

DESCRIPTION

intercalated and interbedded buff and grey fine grained tuffaceous sandstone with minor grey siltstone minor black shale partings

291.5 intercalated and interbedded grey and dark grey siltstone with black shale and minor buff and grey fine grained tuffaceous sandstone.

296.6 unit predominantly carbonaceous black shale with dark grey siltstone.

297.9 intercalated grey siltstone with buff tuffaceous sandstone.

ALTERATION

numerous small quartz / calcite veins several larger veins from 285 to 287 @ 34°.

286.05 Vein 40° LC. 20-25mm wide py, po and qtz.

286.30 - 286.50 Siderite v. c Cp. py and small grains cassiterite 25-30mm wide.

286.70 - 287.70 Clayey and brecciated centre. sideritic upper margin 15-20cm wide.

FAULT ZONE 287-287.4

GRAPHIC LOG

STRUCTURE

moderate disruption

287.0 0.6m of core rubble.

288.2 B @ 42° (ss).

289.8 B@ 40° (sh/ss)

291.4 B@ 41° (ss)

242.8 B @ 40° (ss/sh)

294.4 B @ 48° (ss/sh)

296.0 B @ 43° (ss/sh)

297.5 B @ 46° (sh/ss)

299.2 B @ 28° (sh/ss)

MINERALISATION

Veins between 285 and 287 have pyrite and chalcopyrite

Common pyrite in veins especially in black shale units

VISUAL PERCENTAGE MINERALISATION

1%

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH NBC 46

LOGGED BY J D CRIMEEN FROM 285 TO 300 DATE 20/1/83 PAGE 20 OF 44

DRILL ADVANCE

LITHOLOGY

422373

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	300.30	3.10	3.10	100
	303.40	3.10	3.15	101.6
	306.50	3.20	3.20	100
	309.70	3.10	3.10	100
	312.80	3.10	3.20	103.2

301 302 303 304 305 306 307 308 309 310 311 312 313 314 315

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	300.3 contorted black shale and dark grey siltstone	common quartz / siderite veins mostly small and disrupted minor replacive siderite in some sandstone clasts.		heavy contortion and disruption especially in black shale units.	trace pyrite with veins	tr
	301.4 intercalated and interbedded light grey, grey siltstone with grey and buff-grey fine grained tuffaceous sandstone, occasional zones with black shale partings					
				303.7 B @ 41° (SS)		
				306.9 B @ 46° (SS)		
	310.8 intercalated grey and light grey siltstone with minor grey fine grained tuffaceous sandstone.					
	314.2 intercalated and interbedded buff-grey fine-grained tuffaceous sandstone with minor buff-grey siltstone. occasional zone of grey and dark grey siltstone. also black shale partings					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RGE 46

LOGGED BY J D Crimeen FROM 300 TO 315 DATE 21/1/83 PAGE 21 OF 44

DRILL ADVANCE

LITHOLOGY

422374

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
							predominantly buff grey fine grained tuffaceous sandstone with grey siltstone occasional shale partings	minor quartz / siderite veins mostly small and disrupted.		units mostly heavily disrupted	common pyrite with quartz veins	<1%
	315 90	3·10	3·20	103·2	316 317 318					316·3 B @ 20° (ss).		
	319·00	3·10	3·20	103·2	319 320 321 322					319·2 B @ 51° (ss)		
	322·10	3·10	3·15	101·6	323 324 325					323·4 B @ 43° (sa/ss)		
	325·20	3·10	3·15	101·6	326 327 328		326·1 0·5m of black shale and siltstone with minor colations of grey siltstone.			325·6 B @ 44° (ss/sa) 328·2 B @ 42° (sh/ss)		
	328·30	3·10	3·10	100	329 330		328·6 intercalated dark grey siltstone and carbonaceous black shale and light grey fine grained tuffaceous sandstone to 331·4m.					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH Ver 40

LOGGED BY JD CRIMEEN FROM 315 TO 330 DATE 20/1/83 PAGE 22 OF 44.

DRILL ADVANCE

LITHOLOGY

422375

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	331.40	3.10	3.00	96.7
	334.50	3.00	3.00	100
	337.50	3.00	3.00	100
	340.50	2.10	1.80	85.7
	342.60	3.10	3.15	101.6

331
332
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345

SCALE 1:100 (1cm = 1 m)

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	continuation of previous shale unit	Common (especially in shale units) quartz veins mostly disrupted. minor siderite with quartz veins		moderate to heavy disruption	common disseminated pyrite in shale and sandstone.	1%
	331.5 intercalated and interbedded buff-grey and and minor grey tuffaceous sandstone, with grey siltstone with occasional zones and partings of dark grey and carbonaceous black shale					
				333.2 B @ 35° (sa/ss)		
				335.4 B @ 38° (ss/sh)		
	336.1 intercalated and interbedded dark grey siltstone and carbonaceous black shale with minor grey siltstone and tuffaceous sandstone					
				337.8 B @ 50° (ss)		
		338.8 quartz veins over 0.2m @ 43°				
				339.6 B @ 50° (sh)		
				341.9 B @ 46° (sh/ss)		
				344.6 B @ 58° (sh)		

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46

LOGGED BY J.D. CRIMEEN FROM 331 TO 345 DATE 20/1/83 PAGE 23 OF 44

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	345.70	3.10	3.10	100
	348.80	3.20	3.20	100
	352.00	1.10	0.95	86.3
	353.10	2.40	0.40	16.6
	355.50	0.60	0.25	41.6
	356.10	0.40	0.15	37.5
	356.50	0.80	0.50	62.5
	357.30	1.20	1.00	83.3
	358.50	0.80	0.75	93.75
	359.30	2.20	1.60	72.7

346 347 348 349 350 351 352 353 354 355 356 357 358 359 360

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

422376

INTERVAL

DESCRIPTION

intercalated and interbedded dark grey siltstone and carbonaceous black shale with minor grey siltstone and fine grained tuffaceous sandstone. dark units in thin zones.

Note by DJT.
Galena at 352.7m in dk gy/black shales. and siderite veins above massive to stockwork of quartz veins. qv predominate 355.50 – 364.7m.

ALTERATION

Very common quartz veining in slightly disrupted shale along bedding planes in dark units up to 12-15% veining including some larger veins

350.9 quartz vein 120 mm @ 36°.

355.5 quartz vein rubble 300 mm.

356.1 quartz vein rubble 200 mm.

358.1 quartz veins aggr. 1.4m @ 25°

GRAPHIC LOG

STRUCTURE

moderate disruption

346.2 B @ 47° (sh)

348.4 B @ 46° (sh/ss).

350.6 B @ 36° (sh/ss)

353.1 B @ 45° (slics).
353.4 core extensively broken to rubble.

357.0 B @ 35° (sh)

359.3 B @ 34° (sh/ss)

MINERALISATION / **VISUAL PERCENTAGE MINERALISATION**

Common disseminated and vein and with quartz vein pyrite — 2%

350.9 Vein contains pyrite 7% and arsenopyrite 3% — 10%

Galena [illegible]

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KGc 46

LOGGED BY J.P. CRIMEEN FROM 345 TO 360 DATE 20/1/83 PAGE 24 OF 44

DRILL ADVANCE

LITHOLOGY

422377

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	361.50	1.40	1.30	92.8
	362.90	0.80	0.60	75
	363.70	0.60	0.50	83.3
	364.30	2.50	2.50	100
	366.80	1.70	1.70	100
	368.50	2.00	2.00	100
	370.50	3.00	3.00	100
	373.50	1.00	0.50	50
	374.50	1.70	0.45	26.4

361 362 363 364 366 366 367 368 369 370 371 372 373 374 375

SCALE 1:100 (1cm = 1 m)

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	interbedded and intercalated carbonaceous black shale and dark grey siltstone with lesser amounts of grey siltstone and grey fine-grained tuffaceous sandstone.	~~[illegible]~~ 15-20% quartz veins intruding shale. Common clasts and breccia fragments. Veining mostly to 364.7m. Commonly at 40° or 30°		heavy disruption and contortion	Common pyrite with quartz veins and veins and disseminated through shale	5%
				361.8, B@ 52° (sh)		
				366.0 B@ 61° (sh).		
				367.4 B@ 50° (ss).		
		367.9 quartz vein 0.85 m @ 46°.				
				369.5 B@ 55° (ss/sh)		
				371.4 B@ 46° (ss/sh)		
				373.4 B@ 51° (sh).		

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RKE 46

LOGGED BY J.D. CRIMEEN FROM 360 TO 375 DATE 20/1/83 PAGE 25 OF 44

DRILL ADVANCE

LITHOLOGY

422378

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	376.20	3.10	0.30	9.6
	379.30	2.20	1.90	86.3
	381.50	2.20	2.05	93.1
	383.70	1.80	1.75	97.2
	385.50	3.00	3.00	100
	388.50	3.00	3.00	100

376 377 378 379 380 381 382 383 384 385 386 387 388 389 390

INTERVAL

almost total core loss.

DESCRIPTION

interbedded and intercalated dark grey siltstone and carbonaceous black shale with minor grey siltstone and fine grained tuffaceous sandstone

ALTERATION

very common Quartz/siderite veining up to 10% ~~disseminated~~ and small (rarely) vein material lost in ~~the~~ zone to 379.2m

381.0 Quartz/siderite vein with sediment clasts 400mm @ 30°.

382.8 ~~Fe~~ Siderite vein? 170mm @ 45°

383.45 Quartz/siderite with breccia clasts 70mm @ 45°

387.3 Quartz/siderite vein 350mm @ 28°

389.7 Quartz/siderite vein 170mm @ 35°

GRAPHIC LOG

STRUCTURE

moderate disruption and contortion.

minor rubble left between 375 and 379.2m.

379.4 late fault @ 40°

379.8 B @ 45° (ss/sh)

381.8 B @ 48° (ss/sh)

384.0 B @ 30° (ss/sh).

386.2 B @ 50° (ss/sh)

common soft sediment brecciation and deformation.

388.5 B? @ 20° (ss/sh)

MINERALISATION	VISUAL PERCENTAGE MINERALISATION
Very common Pyrite with Quartz/Siderite veins, in veins and disseminated in black shale	3%
381.0 Vein contains Py Aspy	≤5%
383.45 vein contains Py.Po Cp	10%
389.7 vein contains Po.Cp.Py	10%

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KSC 46

LOGGED BY J.D.CRIMEEN FROM 375 TO 390 DATE 21/1/83 PAGE 26 OF 44

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	391·50	3·00	3·00	100
	394·50	1·00	0·15	15
	395·50	0·50	0·15	30
	396·00	0·80	0·55	68·7
	396·80	1·50	0·70	46·6
	398·30	1·00	0·80	80
	399·30	1·20	0·90	75
	400·50	3·00	2·75	91·6
	403·50	0·90	0·50	55·5
	404·40	1·90	1·70	89·4

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

422379

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	390·2 0·8m of calcareous tuff fine - grained sandstone. intercalated and interbedded carbonaceous black shale and dark grey siltstone. with minor grey siltstone and rare fine grained tuffaceous sandstone some units slightly and sporadically calcareous	minor small disrupted quartz and minor siderite veins.		moderate disruption and distortion	minor pyrite in veins and with quartz / siderite veins	<1%
		391.7 quartz veins minor siderite. forming stockwork over 2m., very little sediment and clasts left within vein zone. contacts @ 30°	qtz			
					393.7 minor Po/Py/Cp/Sp on margin and in small vein (5cm)	5%
				core rubble only		
				397.0 B @ 35° (ss/sh)		
				core rubble only		
				400.6 B @ 52° (ss/sh)		
				402.4 B @ 36° (ss/sh)		
				core rubble only.		
				404.9 B @ 50° (sh/ss).		

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RS. 16

LOGGED BY J.D. CRIMEEN FROM 390 TO 405 DATE 21/1/83 PAGE 27 OF 44

322

DRILL ADVANCE

LITHOLOGY

422380

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	406.30	1.30	0.85	65.3
	407.60	1.50	1.50	100
	409.10	1.20	1.15	95.8
	410.30	3.10	3.10	100
	413.40	3.10	3.10	100
	416.50	2.90	3.00	103.4
	419.40	3.10	3.10	100

406 407 408 409 410 411 412 413 414 415 416 417 418 419 420

INTERVAL

DESCRIPTION

interbedded and intercalated carbonaceous black shale and dark grey siltstone minor grey siltstone units sporadically calcareous.

406.3 grey calc pelite 6cm.

ALTERATION

minor quartz and calcite veins

410.3 quartz veins over 130mm @ 32°

GRAPHIC LOG

STRUCTURE

moderate disruption and contortion

406.6 B@55° (ca.pel/ss).

408.6 B @ 30° (ca pel).

412.2 B @ 8° (ca pel/sh).

414.2 B@ 43° (ss/sh).

416.6 B@ 55° (ss/sh).

418.6 B @ 58° (ss/sh).

MINERALISATION

common pyrite in veins and with veins

VISUAL PERCENTAGE MINERALISATION

1%

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RCC 46

LOGGED BY J.D. Grimley FROM 405 TO 420 DATE 21/1/83 PAGE 28 OF 44

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	422.50	3.10	3.10	100
	425.60	3.10	3.10	100
	428.70	3.10	3.20	103.2
	431.80	3.10	3.10	100
	434.90	2.80	2.60	92.8

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

422381

INTERVAL

DESCRIPTION

intercalated and interbedded units of carbonaceous black shale, dark grey siltstone and grey calcareous siltstone (calc pelites). usually the non-calcareous / calcareous units form separate and distinct bands / beds and calcitons.

ALTERATION

moderate quartz and calcite (mostly calcite) veining - small and disrupted veins

GRAPHIC LOG

STRUCTURE

moderate to heavy disruption. shales undergone soft sediment deformation.

424.5 B @ 47° (cal. pel).

429.0 B @ 42° (cal. Pel)

430.8 B @ 52° (cal pel / ss)

433.3 B @ 62° (cal pel)

434.8 B @ 47° (ss/sh)

MINERALISATION

moderate pyrite in veins and with veins

VISUAL PERCENTAGE MINERALISATION

1%

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH Rise 46

LOGGED BY J.D. CRIMEEN FROM 420 TO 435 DATE 21/1/83 PAGE 29 OF 44

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422382

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	437.70	3.10	3.10	100
	440.80	1.70	1.80	105.8
	442.50	3.00	3.00	100
	445.50	3.00	3.00	100
	448.50	3.00	3.00	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and interbedded carbonaceous black shale with dark grey siltstone with minor grey siltstone, and grey calcareous siltstone.	very common calcite and minor quartz veining usually small and disrupted.		variable disruption Top unit heavily disrupted and contorted 436.9 B @ 52° (sh/ss)	common pyrite in veins in shale units	
				438.1 B @ 49° (sh/ss)		
	439.85 yellow-grey with slight green tinge, medium-grained, altered, fractured gabbro? with common partings and fracture infillings of black shale unit in part calcareous?			contact @ 78° moderate disruption. unit commonly fractured unit massive	a few small calcite veins with minor Pyrite / Pyrrhotite and Sphalerite.	
	447.7 interbedded and minor intercalated grey siltstone with minor fine grained tuffaceous sandstone.	100 mm vein with quartz / carbonate and fluorite @ 30°		contact @ 50° minor disruption. Some parts have undergone brecciation		
				450.0 B @ 52° (ss)		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH Kg. 16

LOGGED BY JD CRIMEEN FROM 435 TO 450 DATE 21/1/83 PAGE 30 OF 44

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LITHOLOGY

422383

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
				451		interbedded and minor intercalated grey siltstone with minor grey fine grained tuffaceous sandstone and dark grey contorted siltstone	minor quartz / calcite veination and minor siderite most veins in disrupted zone at 453.5m		moderate disruption in both units usually restricted to small zones	minor pyrite in veins	
	451.50	3.00	2.95	98.3 452 453 454					452.3 B @ 50° (ss). 454.0 B @ 52° (ss)		
	464.50	3.00	2.95	98.3 455 456 457		455.3 mostly interbedded light and dark grey siltstone with occasional disrupted / deformed zones alternating units around 10 mm each bed. more sandstone and shale towards bottom. few beds calcareous. "ZEBRA BEDS."	moderate quartz / calcite veining mostly small and disrupted and concentrated to between 462.7 m.		455.4 B @ 57° (ss) 456.8 B @ 51° (ss)	common pyrite and lesser pyrrhotite and trace sphalerite in veins and with veins.	3%
	457.50	3.00	3.00	100 458 459 460					458.2 B @ 50° (ss) unit disrupted to 460.5		
	460.50	3.00	3.00	100 461 462 463					460.7 B @ 30° (ss) 462.2 B @ 41° (ss)		
	463.50	0.90	0.90	100 464					463.6 . B @ 42° (ss)		
	464.40	2.10	2.10	100 465		464.4 0.4 m of grey fine grained tuffaceous sandstone.					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KEC 46

LOGGED BY J.D. CRIMEEN FROM 450 TO 465 DATE 21/1/83 PAGE 31 OF 44

DRILL ADVANCE

LITHOLOGY

422384

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	466.50	2.80	2.80	100
	469.30	3.10	3.05	98.3
	472.40	3.10	3.00	96.7
	475.50	2.40	2.40	100
	477.90	3.10	3.10	100

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	465.3 predominantly grey fine grained tuffaceous sandstone with minor intercalated and interbedded grey siltstone.	common disrupted quartz veination		moderate disruption Sandstone mostly massive. 467.7 B @ 40° (ss).	minor pyrrhotite with quartz & veins	
	470.3 interbedded and intercalated deformed carbonaceous black shale and dark grey siltstone with white dolomite, both usually in thin slices, or laminae, limestone 476.1 (dolomite / limestone?) bed 120mm thick with stylolites	occasional quartz/calcite small smooth veination.		moderate to heavy disruption 470.6 B @ 57° (sh/dw) 472.3 B @ 60° (sh/dw) 473.6 B @ 30° (sh/dw) 475.1 B @ 52° (dw/ss) 476.4 B @ 37° (sh/ss). 478.1 B @ 51° (ca pel) contact gab @ 67°	minor pyrite in veins, patches and disseminated.	
478.8	gabbro. green-white medium-grained altered fractured gabbro with common graphite coatings along fracture fills.	moderate quartz/calcite mostly smooth and small veins.		moderate disruption and fracturing	minor pyrite with veins	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBC 46

LOGGED BY J.D.Crimeen FROM 465 TO 480 DATE 21/1/83 PAGE 32 OF 44

LITHOLOGY

422385

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	481.00	3.10	3.10	100
	484.10	2.90	2.90	100
	487.00	2.40	2.40	100
	489.40	3.10	3.10	100
	492.50	3.00	3.00	100

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	green-grey. altered. fine to medium grained fractured gabbro.	minor quartz (calcite veination. 4 veins around 100mm @ 45°		unit moderately fractured.	minor pyrite in veins.	
	489.3 small unit of grey fine grained tuffaceous Sandstone. massive			sharp top contact @ 20°		
	490.4 3.1m of interbedded black shale, siltstone and minor limestone.	common calcite veins.		491.7 B @ 65° (sh/ss) sharp bottom contact @ 65°	unit pyritic	

Depth scale: 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH [illegible] 46

LOGGED BY J.D. CRIMEEN FROM 480 TO 495 DATE 21/1/85 PAGE 33 OF 44

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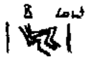
LITHOLOGY

422386

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	495.50	2.70	2.75	101.8
	498.20	3.10	3.10	100
	501.30	3.10	3.10	100
	504.40	3.10	3.05	98.3
	507.50	3.00	3.10	103.3

496 497 498 499 500 501 502 503 504 505 506 507 508 509 510

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	green-grey fractured altered medium-grained gabbro. commonly with graphitic infilling of fractures.	moderate quartz/calcite laminations few veins around 10mm @ 44°		unit commonly fractured. contact @ 54° (sharp)	barren.	
499.3	Mixed Sediments intercalated and interbedded grey fine-grained tuffaceous sandstone. grey siltstone and dark grey siltstone and carbonaceous black shale. rare calcareous siltstone	very common quartz/calcite veins. usually small and disrupted		heavy disruption and contortion 500.5 B? @ 47° (ss/sh) 501.9 ?B @ 52° (sh/ss) 503.6 B @ 59° (sh) 505.3 B contorted  bedding contorted and shallow to CA	occasional pyrite pyrite around quartz/calcite veins	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH REC 46

LOGGED BY J.D. CRIMEEN FROM 495 TO 510 DATE / 1 /83 PAGE 34 OF 44

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	510·50	2·70	2·60	96·2
	513·20	3·00	3·00	100
	516·20	3·10	3·00	96·7
	519·30	1·90	1·80	94·7
	521·20	3·10	3·10	100
	524·30	2·20	2·20	100

511 512 513 514 515 516 517 518 519 520 521 522 523 524 525

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

422387

INTERVAL

DESCRIPTION

Intercalated and interbedded mixed unit of grey siltstone, grey fine grained tuffaceous sandstone ~~[illegible]~~ and dark grey siltstone with very minor black shale.

511.9 mixed in with sediment green-grey, altered, fractured ~ medium grained gabbro.

513.1 0.6 metres intercalated sediment

513.7 0.8 metres Gabbro?

514.6 0.5 metres intercalated sediment

515.0 1.5 metres gabbro?

516.5 predominantly grey fine grained tuffaceous sandstone.

519.5 mixed sediments

522.9 predominantly tuffaceous sandstone

524.7 altered gabbro?

ALTERATION

very common quartz / calcite veins small and disrupted.

511.5 quartz / siderite /ankerite vein 160 mm @ 32°.

524.1 quartz / siderite/ankerite vein 470 mm @ 50°.

GRAPHIC LOG

STRUCTURE

most units heavily disrupted and deformed, although sandstone usually massive and fractured. contacts between gabbros and sediments unsure / indistinct.

520.6 B @ 52° (ss/sh).

524.0 ?B @ 22° (ss).

MINERALISATION

minor pyrite patches.

524.1 vein contains Po / Cp / Aspy / Py

VISUAL PERCENTAGE MINERALISATION

10%

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 46

LOGGED BY J. A. Crocker FROM 510 TO 525 DATE 24/1/83 PAGE 35 OF 44

DRILL ADVANCE

LITHOLOGY

422388

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	526.50	3.00	3.00	100
	529.50	3.00	3.00	100
	532.50	3.00	3.00	100
	535.50	3.00	3.10	103.3
	538.50	3.00	3.00	100

526 527 528 529 530 531 532 533 534 535 536 537 538 539 540

SCALE 1:100 (1cm = 1 m)

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and interbedded grey fine grained tuffaceous sandstone and siltstone with minor dark grey siltstone and black shale.	Common quartz and quartz / calcite veins, usually small and disrupted.		heavy disruption and contortion	minor Pyrite with veins, trace Pyrrhotite and Sphalerite	
				527.7 B @ 53° (ss)		
				530.0 B @ 43° (ss)		
				532.5 B @ 8° (ss/sa)		
				533.3 B @ 30° (ss/sa)		
				538.0 B @ 20° (sa/ss)		
				539.1 B @ 30° (ss/sa)		

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH SSF 46

LOGGED BY J.D. CRIMEEN FROM 525 TO 540 DATE 24/1/83 PAGE 36 OF 44

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DRILL ADVANCE

LITHOLOGY

422389

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	541·50	3·00	3·00	100
	544·50	3·00	3·00	100
	547·50	3·00	3·00	100
	550·50	3·00	3.00	100
	553·50	3·00	2·90	96·6

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	tuffaceous sandstone and siltstone			contact sharp @ 30°		
540·8	Gabbro. green, altered and fractured medium-grained gabbro. numerous graphitic partings. 542.1. 0.1 metres of disrupted black shale and siltstone followed by 0.2 metres of tuffaceous sandstone	common quartz / calcite veins small and mostly disrupted		moderate disruption and fracturing contact sharp @ 62°.	trace disseminated pyrite	tr
544.7	Mixed Sediments. intercalated grey, fine grained, tuffaceous sandstone with grey siltstone and deformed black shale and siltstone units. grey units with slight brown tinge - slight hornfelsing due to gabbros? predominantly tuffaceous sandstone ± 549.5 0.6m of predominantly shaley units 552.1 and predominantly shaley units to 554.4m	common quartz / calcite veins especially common in shaley units		heavy disruption, mainly in shaley units undergoing soft sediment brecciation and deformation 547.9 B @ 22° (Sb/Sa) coarse ↓ fine 548.8 B @ 27° (Sb)	minor pyrite mostly in shaley unit in patches ~~sed~~ (primary?)	
554.4	Gabbro.					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KG 46

LOGGED BY JD CRIMEEN FROM 540 TO 555 DATE 24/1/83 PAGE 37 OF 44

LITHOLOGY

422390

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
556.50	2.00	2.00	100
558.50	0.20	0.20	100
558.70	4.80	4.90	102
563.50	4.80	4.90	102
568.30	2.80	2.60	100

INTERVAL	DESCRIPTION	ALTERATION	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Brown, altered and fractured medium-grained [illegible], occasional graphitic parting ?	common quartz / calcite veination up to 7% mostly less than 10mm, smooth and disrupted.	moderate brecciation.	trace disseminated pyrite	
557.1	mixed sediments. interbedded and intercalated grey siltstone, grey fine grained tuffaceous sandstone, minor black shale and siltstone plus common white stylolitized and silicified carbonate - limestone? 563.5 from here down common talcose carbonate result from contact on mafic below?	common quartz / calcite veins, especially in shaley units usually small and disrupted. up to 20%? 560.0 quartz / siderite veins over 350mm @ 65°.	unit very heavily disrupted, brecciated and contorted. 559.8 B/S/Vn trend @ 45° 561.4 ? B/shearing trend @ 24° + vein trend. 563.6 B/shearing trend @ 35° contact unclear ↕	minor to trace pyrite in patches, mostly in shale 560.0 vein contains Py 5% Aspy 5% Po 1%	<1% 11%
565.5	altered mafic. olive-green, altered, fine grained basic?	common quartz / calcite veins, usually small and disrupted.	common fractures contact sharp @ 16°.	minor pyrite in patches and veinlets very fine grained	1%
569.0	Shale and dolomite / limestone deformed black shale and dark grey siltstone to 569.7m then predominantly silicified limestone.	minor small quartz / calcite veins	heavy disruption and contortion	common pyrite with shale	1%

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46

LOGGED BY J.D.CRIMEEN FROM 565 TO 570 DATE 24/1/83 PAGE 58 OF 44

422391

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	571.10	0.90	0.95	105.5
	572.00	4.90	4.90	100
	576.90	4.80	4.95	103
	581.70	4.90	4.90	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	to 570.8 m intercalated deformed carbonaceous black shale with white silicified and rare talcose limestone. from 570.8 massive white/grey, silicified, brecciated and stylolitized limestone. stylolites and fractures infilled by graphitic matter.	common quartz / calcite small and disrupted veins in shaley section from 570.8 m moderate quartz/calcite veins small and smooth.		unit heavily brecciated plus common compaction features. stylolites.	common pyrite disseminated. patches and fracture-filling primary not introduced with silicification	1%
	573.8 disrupted unit of silicified limestone with minor black shale and siltstone and ? sandstone.	minor quartz / calcite small, smooth veins.				
	575.0 deformed carbonaceous black shale and dark grey siltstone, from 576.0 interbedded with calcareous siltstone	754.6 siderite vein 60mm @ 48°		575.0 contact @ 43°. unit appears sheared ? heavy disruption.	common patchy pyrite	3%
	576.6 0.3m of fine grained tuff / tuffaceous sandstone	576.4 siderite vein 60mm @ 48°.		576.2 B @ 36° (sh/ss).		
	577.2. interbedded and intercalated brown and grey siltstone and tuffaceous sandstone, minor dark grey siltstone and black shale. rare calcareous siltstone beds.			heavy brecciation and disruption 577.2 B @ 49° (ss).	common pyrite in quartz veins and disseminated	2%
				578.9 B @ 51° (ss/sh).		
		580.5 quartz vein 500mm @ 41°t and 35°b			580.5 vein contains Po 25% and Py 5%. Cp 1%	31%
581.0	<u>ultramafic</u> to 582.6m mixed in with black shale, very fine grained - chilled margin? grading down to fine grained to medium grained lt green and dark green flaky grained ultramafic	common very thin veinlets of quartz / calcite.		unit heavily disrupted to 582.6m then minor, has common foliation or layering. 582.6 F/L @ 35° 583.7 F/L @ 52°	minor Py/Cp/Po with veins	<1%

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46

LOGGED BY J.D. CRIMEEN FROM 570 TO 585 DATE 26/1/83 PAGE 29 OF 44

DRILL ADVANCE

LITHOLOGY

422392

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	586.60	4.60	4.60	100
	591.20	4.90	4.90	100
	596.10	4.90	4.90	100

586 587 588 589 590 591 592 593 594 595 596 597 598 599 600

SCALE 1:100 (1cm = 1 m)

INTERVAL

DESCRIPTION

olive-green / dark green layered / foliated medium-grained (flaky/ micas crystalline ultramafic? unit weakly brecciated with graphitic infilling (increasing downhole). note unit NOT MAGNETIC.
unit has gneissic / schistose fabric.

587.8m 2.4 metres of mixed sediment and ultramafic.

ALTERATION

minor quartz / calcite veining (usually small smooth and disrupted. more veining in mixed unit.

GRAPHIC LOG

STRUCTURE

unit brecciated increasing downhole.

586.5 F/L @ 51°

unit disrupted to 588.2 m

592.2 F/L ? @ 30°

594.3 F/L @ 38°

596.5 F/L @ 38°

596.9 dramatic increase in brecciation and graphitic infilling unit contorted

foliation / layering.

MINERALISATION

trace pyrite with quartz / calcite veins.

VISUAL PERCENTAGE MINERALISATION

tr.

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46

LOGGED BY J.D. CRIMEEN FROM 585 TO 600 DATE 27/ · /83 PAGE 40 OF 44

DRILL ADVANCE

LITHOLOGY

422393

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	600.90	4.80	4.80	100
	605.70	4.80	4.80	100
	610.50	4.80	4.80	100

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	olive-green / dark green layered. foliated flakes / platey crystalline (gneissic / schistose fabric) non-magnetic. medium-grained ultramafic ? commonly mixed in and infilling fractures is graphitic material to 603.1 m then from 604.80 to 605.70 m.	occasional quartz / calcite and siderite veins, usually small and sparse.		minor contortion of layering common fracturing heavy disruption to 603.1 m 603.8 F/L @ 20° 606.1 F/L @ 20°. 608.4 F/L @ 16°. 610.6 F/L @ 12°. 612.6 F/L @ 8°. 614.7 F/L ~ 0°	minor pyrite with quartz veins mostly between 604.8 - 605.7 m.	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RRE 46.

LOGGED BY J.D. CRIMEEN FROM 600 TO 615 DATE 27/1/83 PAGE 41 OF 44.

LITHOLOGY

422394

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	615.30	4.80	4.65	96.8
	620.20	2.00	2.00	100
	622.20	3.80	3.80	100
	626.00	0.90	0.90	100
	626.90	4.10	5.00	102

SCALE 1:100 (1cm = 1 m)

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	dark green and green layered / foliated (gneissic / schistose fabric) medium and fine grained ultramafic from [illegible] layering between plates / flakes crystalline mineral and very fine grained mineral. layers approximately 2-3mm wide	occasional small / smooth quartz / calcite veins. common chlorite coating along fractures.		layering slightly contorted common fracturing and slickensliding along fractures. 617.8 F/L @ 20° 619.3 F/L @ 0° ? 620.8 F/L @ 28° 622.7 F/L @ 33° 623.8 F/L @ 30° 625.0 F/L @ 48°. 626.3 F/L @ 78° 628.2 F/L @ 56°. 629.9 F/L @ 70°	trace pyrite with quartz / calcite veins.	

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RGC 46

LOGGED BY J.D. CRIMEEN FROM 615 TO 630 DATE 28 / 1 / 83 PAGE 42 OF 44

337

DRILL ADVANCE

LITHOLOGY

422395

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	SCALE	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					631		layered / foliated dark green/green (gneissic/schistose fabric). fine grained and medium grained flakes/plates crystalline ultramafic.	numerous quartz/calcite veins mostly small, smooth and disrupted.		slight variation in layering c/a.	trace pyrite with quartz/~~Fe~~calcite vein.	
	631.50	4.90	4.90	100	632					631.7 F/L @ 63°		
					633					633.3 F/L @ 70°		
					634					634.8 F/L @ 41°.		
					635		635.25 mixed altered ultramafic with black shale. 635.5 0.1 metres of silicified white foliated talc carbonate	635.2 quartz/siderite/ankerite vein 190 mm @ 60°		contact sharp @ 58°.	635.2 vein contains Sp 1%	1%
						635.6						
					636		mixed sediments. to 636.5 predominantly black shale and dark grey siltstone (partly calcareous) with minor fine grained tuffaceous sandstone. from 636.5 metres unit intercalated and interbedded fine grained tuffaceous sandstone and grey siltstone rare black shale and dark grey siltstone.	very common quartz/calcite veining to 641.4 m then minor veining. mostly small (<10 mm) and disrupted.		unit heavily disrupted - common brecciation and contortion. 636.2 B? @ 74° (sh/sh).	minor mineralisation in larger veins.	
	636.70	3.70	3.55	95.9	637			637.6 quartz/siderite vein 175 mm @ 45°			637.6 vein contains Py 7% and Sp 8%	15%
					638			638.1 quartz/siderite veins over 340 mm @ 63°		638.7 B @ 50° (ss/sh).	638.1 vein contains Py 7%	7%
					639							
					640					unit heavily brecciated.		
	640.40	4.30	4.90	102	641							
					642							
					643			643.8 quartz/siderite veins over 670 mm @ 25°.			643.8 vein contains Po 1% Py 2%	3%
					644					644.6 B? @ 60° (ss/sh)		
					645							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBC 46

LOGGED BY J D CRIMEEN FROM 630 TO 645 DATE 28/1/83 PAGE 43 OF 44

338

DRILL ADVANCE

LITHOLOGY

422396

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
645.20	4.90	4.90	100			interbedded and minor intercalated grey, slightly hornfelsed fine-grained tuffaceous sandstone and siltstone.	minor quartz / calcite veining small and weakly disrupted.		minor disruption	trace pyrite in calcite veins	tr
				646							
				647					647.4 B@ 45° (ss)		
				648					648.7 B@ 40° (sa/ss).		
				649							
650.10				650							
				651					651.8 B@ 36° (sa/ss).		
				652							
				653					653.2 B@ 45° (ss/sa).		
				654							
				655							
				656							
				657							
					657.6	END OF HOLE					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH REE 46.

LOGGED BY JB CRIMEEN FROM 645 TO DATE 28/1/83 PAGE 44 OF 44.

339

422397

	METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
285																	
286																	
287		100	55		1300	2850	2.5	990	135								
288																	
289																	
290																	
291																	
292																	
293																	
294																	
295																	
296																	
297																	
298																	
299																	
300																	

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 46

ASSAYED BY ANALABS FROM 285 TO 300 m DATE 1/4/83 PAGE 1 OF 21

422398

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER

300

315

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46

ASSAYED BY .... FROM 300 TO 315 DATE 1/4/83 PAGE 2 OF 21

422399

METRES	Sn	Cu	W	Pb	Zn	Ag	AS	Ni	SG							SAMPLE NUMBER

315

330

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 46

ASSAYED BY .... FROM 316 TO 330 DATE 1/4/83 PAGE 3 OF 21

422400

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER

330

345

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 46

ASSAYED BY FROM 330 TO 345 DATE 1 / 4 / 83 PAGE 4 OF 21

422401

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	170	165		745	3000	4.5	2850	90								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RDE 46

ASSAYED BY Analabs FROM 345 TO 360 DATE 1/4/83 PAGE 5 OF 21

422402

360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	65	150		390	850	1.5	210	75								
	25	120		125	1050	1.0	94	65								
	10	180		35	375	0.5	85	70								
	30	140		630	2200	1.5	83	80								
	25	230		135	1450	2.0	110	85								
	25	1100		135	410	3.0	1100	85								
	10	105		40	180	0.5	88	1100								
	9	115		25	110	0.5	65	100								

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH KBE 46

ASSAYED BY ANALABS FROM 360 TO 375 DATE 1/4/83 PAGE 6 OF 21

422403

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390

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG						SAMPLE NUMBER
	15	235		380	765	1.5	140	135							
	140	175		2050	4450	3.5	1200	125							
	40	700		1600	2960	7.0	520	70							
	40	185		460	1450	5.0	210	90							
	30	265		575	1350	1.5	630	170							

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 46

ASSAYED BY ANALABS FROM 375 TO 390 DATE 1/4/83 PAGE 7 OF 21

422404

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	280	1600		185	420	4.0	5700	90								
	310	505		80	185	2.5	2.4%	35								
											No sampling to					

390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46

ASSAYED BY ANALABS FROM 390 TO 405 DATE 1/4/83 PAGE 8 OF 21

405

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER

420

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46

ASSAYED BY .... FROM 405 TO 420 DATE 1/4/83 PAGE 9 OF 21

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER

420

435

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46

ASSAYED BY .... FROM 420 TO 435 DATE 1/4/83 PAGE 10 OF 21

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER

435

450

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RGE 46

ASSAYED BY .... FROM 435 TO 450 DATE 1/4/83 PAGE 11 OF 21

350

422408

450

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER

465

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RGE 46

ASSAYED BY .... FROM 450 TO 465 DATE 1/4/83 PAGE 12 OF 21

465

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER

480

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RGE 46

ASSAYED BY .... FROM 465 TO 480 DATE 1/4/83 PAGE 13 OF 21

422410

480

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER

495

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46

ASSAYED BY .... FROM 480 TO 495 DATE 1 / 4 / 83 PAGE 14 OF 21

422411

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	Se							SAMPLE NUMBER

495

510

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 46

ASSAYED BY .... FROM 495 TO 510 DATE 1/4/83 PAGE 15 OF 21

354

422412

510

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER

525

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RGE 46

ASSAYED BY ....

FROM 516 TO 525

DATE 1/4/83

PAGE 16 OF 21

422413

525

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER

540

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 46

ASSAYED BY .... FROM 525 TO 540 DATE 1 / 4 / 83 PAGE 17 OF 21

422414

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER

540
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COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46

ASSAYED BY FROM 540 TO 555 DATE 1/4/83 PAGE 18 OF 21

422415

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
558.70	15	130	BLD	140	495	1.0	2900	135								
562.00	8	20	BLD	10	40	BLD	10	50								
563.50	4	60	BLD	BLD	30	BLD	11	70								
565.60	BLD	90	BLD	BLD	100	BLD	11	125								
568.30																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH KGG 46

ASSAYED BY ANALABS FROM 555 TO 570 DATE 1/4/83 PAGE 19 OF 21

358

422416

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585

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG	SAMPLE NUMBER
	7	55	BLD	15	90	BLD	11	75		
	6	70	35	10	55	BLD	18	60		
	3	50	25	140	295	0.5	17	75		
	3	75	BLD	50	225	0.5	8	120		
	10	70	BLD	5	105	BLD	33	75		
	20	90	15	35	145	BLD	29	95		
	680	2600	BLD	30	170	5.0	1.95%	515		
	20	20	BLD	20	150	0.5	800	545		
	20	85	BLD	BLD	110	BLD	400	215		

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RISE 46

ASSAYED BY Analabs FROM 570 TO 585 DATE 1/4/83 PAGE 20 OF 21

585
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600

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	8	110	15	5	100	BLD	470	385								
E.O.H.	657.6m															

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46

ASSAYED BY Analabs FROM 585 TO 600 DATE / /83 PAGE 21 OF 21

DRILLHOLE LOG

R.B.E. 46 D

AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG
Summary Sheet

422419

Page 1 of 3

PROJECT	Renison	**AREA**	Pieman Tin Zone			**DRILLHOLE TYPE**	DDH w/L
CO-ORDS	372699.1 E 5373078.1 N	**DECN**	63°	**AZIMUTH**	080	**RL**	-131.38
DATE COMMENCED	20/1/83	**DATE COMPLETED**	3/3/83	**DRILLED BY**	Longyear	**DRILL RIG**	L 44
HQ Core to:		**NQ Core to:**	424.6	**BQ Core to:**	1188.3	**EOH**	1188.3

DH No. RBE 460

See Seperate Sheet **SURVEY DATA** **Instrument:** Eastman Camera

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr			Uncorr	Corr	

LOG SUMMARY

ROCK TYPE	MINERALIZATION		
	Style	Grade	Intersection width (Corr)
348.8 – 436.6 Carbonaceous Shales, siltstones and Tuffaceous Sandstone	1-5% disseminated py. occasional qtz/carb veins with upto 50% sulphide		
436.6 – 444.0 Gabbro. Graphitic partings.	Barren		
444.0 – 477.3 Tuffaceous Sandstone, Siltstone, Carbonaceous Shales and minor silicified Limestone	1-3% py, po associated with Quartz veins		
477.3 – 480.0 Gabbro. brecciated	minor py with veins		
480.0 – 488.1 Tuffaceous Sandstone, Calcareous Siltstone and Black Shale	2-3% patchy py or py and po in quartz veinlets		
488.1 – 491.1 Gabbro	Barren.		
491.1 – 510.0 Tuffaceous Sandstone. Siltones, carbonaceous shales and minor silicified limestones	Trace to 2% py or po.		
510.0 – 515.3 Gabbro - Sediment bands	Minor py, po in veinlets		
515.3 – 518.5 Tuffaceous Sandstone.	Trace disseminated py.		
518.5 – 522.3 Gabbro. Graphitic partings	Trace py in veins		
522.3 – 531.4 Tuffaceous Sandstone, minor black shales	Trace fine pyrite		
531.4 – 534.0 Gabbro - chilled upper contact	Trace pyrite		
534.0 – 539.1 Tuffaceous Sandstone	Barren.		
539.1 – 540.4 Gabbro - partially reacted sediments	Trace pyrite		
540.4 – 559.1 Tuffaceous Sandstone, Black Shale. 556.5 - 558.4 Silicified Limestone - stylolitised	Up to 2% disseminated py, aspy Vein py, po, aspy (with qtz)		
559.1 – 566.0 Dolerite - med grained.	Minor py, po. Vein + dissem.		
566.0 – 573.0 Carbonaceous Shales, Calc. Pelites and Limestones	Disseminate py, po.		

Signature JAL Date 20/3/83

AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG
Summary Sheet

422420

Page 2 of 3

PROJECT	Renison East	**AREA**	Pieman Tin Zone.	**DRILLHOLE TYPE**	DDH W/L
CO-ORDS		**DEC^LN**		**AZIMUTH**	
RL		**DH No.**	RBE 46D		
DATE COMMENCED		**DATE COMPLETED**		**DRILLED BY**	Longyear.
DRILL RIG	L44				
Non Coring to:		**HQ Core to:**		**NQ Core to:**	
BQ Core to:		**EOH**			

See separate sheets ← **SURVEY DATA** **Instrument:** Eastman Camera

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr			Uncorr	Corr	

LOG SUMMARY

ROCK TYPE	MINERALIZATION		
	Style	Grade	Intersection width (Corr)
573.0 – 631.9 Ultramafics, foliated,	Sections, minor sulphide/qtz veins		
Locally serpentinised	(Asp, py, po, cp, 30-65%)		
	dominantly trace py, <1%		
631.9 – 672.6 Carbonaceous Shales,	1% disseminated py, minor		
Tuffaceous Sandstone and Siltstone	qtz, carbonate, <5% sulphide veins		
672.6 – 692.4 Hornfelsed Sandstones, Black	3% po in shales. Common		
Shales and siltstones	Qtz/actinolite/sulphide veins		
692.4 – 700.7 Calcareous Pelites and	2-3% po in bedding parting		
impure Limestones – finely bedded	± veinlets.		
700.7 – 721.3 Hornfelsed Sandstones, Silt-	Up to 20% Po replacing limestone		
stones and dirty limestones	Common qtz veining ± sulphide		
721.3 – 726.0 Calcareous Pelites ± dirty	10% po in patchy replace-		
Limestones	ment near upper contact. 722.1		
	to 722.5, 3% replacement by aspy		
726.0 – 733.6 Hornfelsed Siltstones and	3% dissem + vein po - up to		
replaced Limestones (by qtz/actinolite)	40% po, cp in 6cm vein		
733.6 – 744.9 Calcareous Pelites – not	2% po in veinlets		
very altered, calcite veining			
744.9 – 755.1 Hornfelsed Siltstones and	4% po in veinlets + replace-		
Sandstones	ment bands.		
755.1 – 762.8 Calcareous Pelites. Moderate	2% po. Up to 30% po in		
axinite, actinolite alteration	minor axinite/actinolite zone		
762.8 – 972.7 Hornfelsed Siltstones,	Minor disseminated py, po		
Shales, basic Tuffaceous Sandstones	Occasional qtz/carbonate		
rare Basalt + minor acid tuff bands	basemetal sulphide veins		
972.7 – 985.9 Gabbro – med-coarse grained	10 cm qtz - sulphide vein		
Chilled lower margin	trace disseminated		
985.9 – 1063.2 Hornfelsed Sediments –			

Signature JAL Date 20/3/83

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AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG
Summary Sheet

422421

Page 3 of 3

PROJECT		AREA		DRILLHOLE TYPE
CO-ORDS	DECLN	AZIMUTH	RL	DH No. RBE46D
DATE COMMENCED	DATE COMPLETED	DRILLED BY	DRILL RIG	
Non Coring to:	HQ Core to:	NQ Core to:	BQ Core to:	EOH

SURVEY DATA

Instrument:

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr			Uncorr	Corr	

LOG SUMMARY

ROCK TYPE	MINERALIZATION		
	Style	Grade	Intersection width (Corr)
Siltstones, basic Tuffaceous Sandstones	1-2% disseminated py, po		
with interbedded black shales, and calcareous	up to 10% over narrow		
pelites. Common calc-sil alteration	widths		
1043·2 – 1056·4 Replaced Calcareous Sediments	10% po in veinlets +		
Calc-sil hornfelsed sandstones	replacement horizons.		
1056·4 – 1084·1 Carbonaceous Shales.	5-15% po – syngenetic in origin		
1084·1 – 1094·0 Fine Grained Gabbro	Barren.		
1094·0 – 1099·0 Hornfelsed Tuffaceous	minor po in veins		
Sandstone and Siltstone			
1099·0 – 1111·8 Carbonaceous Shales,	5-10% Po in bedding		
common calcareous units	planes.		
1111·8 – 1128·8 Hornfelsed Tuffaceous	5-20% po py in shales		
Sandstone, Siltstone, Black	and with axinite + actin-		
Shales – Calc-sil hornfels is	olite in calc-sil hornfels.		
moderately developed 1131·8 – 1122·6			
1128·8 – 1188·3 Intercallated Black Shales,	up to 3% po in black		
Hornfelsed Tuffaceous Sandstone and	shales but generally <1%		
Siltstone			
EOH = 1188·3m.			

Signature JAL Date 20/8/83

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	348.80	1.30	1.30	100
	350.10	1.60	1.60	100
	351.70	1.50	1.50	100
	353.20	1.50	0.80	53.3
	354.70	0.80	0 10	12.5
	355.50	0.90	0.10	11.1
	356.40	0.35	0.10	28.5
	356.75	0.25	0.26	100
	357.00	1.70	0.10	5.8
	358.70	0.30	0.10	33.3
	369.00	1.00	1.00	100
	360.00	0.90	0.60	66.6

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	drilled off wedge with bull nosed bit					
348.8	Start of coring on RGC 46 Deflection					
	black shale. interlaminated and interbedded contorted carbonaceous black shale and dark grey siltstone, with minor calations of grey siltstone and fine grained tuffaceous sandstone. Shale calcareous to 353m	very common quartz, minor siderite veining, mostly small, disrupted to 355.0 then large ~20mm up to 20% veining most veins shallow to CA ~27°.		heavy disruption and contortion and from 353.8 core mostly rubble.	common pyrite with veins and disseminated in sediments	5%
				350.6 B @ 48° (ss/sh)		
					351.4 20mm quartz vein with pyrite 25% and chalcopyrite 20%	50%
				353.4 B @ 33° (sh/ss).		

422422

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RGC 46 D

LOGGED BY J.D. CRIMEEN FROM 345 TO 360 DATE 2/2/83 PAGE 1 OF 51

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	360.90	1.20	0.30	25
	361.20	0.80	0.70	87.5
	362.00	1.60	1.40	87.5
	363.60	0.80	0.50	62.5
	364.40	1.30	0.90	69.2
	365.70	0.90	0.60	66.6
	366.60	1.10	1.00	90.9
	367.70	2.80	2.80	100
	370.50	3.00	2.90	96.6
	373.50	1.80	1.70	94.4

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL

DESCRIPTION

intercalated and interbedded deformed carbonaceous black shale and dark grey siltstone and minor grey fine grained tuffaceous sandstone and grey siltstone.

ALTERATION

very common quartz veining up to 35%

362.1 quartz veins to 363.7m. @ ~ 34°

369.1 quartz veins 470 mm @ ~ 48°.

GRAPHIC LOG

STRUCTURE

core extensively broken bedding disrupted and contortion

363.2 B@ 46° (ss/sh)

366.1 B @ 49° (ss/sh)

367.6 B @ 52° (ss/sh)

370.4 B@ 57° (ss/sh)

374.3 B @ 53° (ss/sh).

MINERALISATION

common pyrite in veins fractures and with quartz

VISUAL PERCENTAGE MINERALISATION

3%

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBC 40D

LOGGED BY J.D. CRIMEEN FROM 360 TO 375 DATE 2/2/83 PAGE 2 OF 51

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	375.30	1.50	1.20	80
	376.80	1.90	1.60	84.2
	378.70	1.30	0.80	61.5
	380.00	3.00	2.90	96.6
	383.00	3.00	3.00	100
	386.00	2.90	2.90	100
	388.90	3.00	3.00	100

376 377 378 379 380 381 382 383 384 385 386 387 388 389 390

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and interbedded carbonaceous black shale and dark grey siltstone and minor grey siltstone and fine grained tuffaceous sandstone.	minor quartz / calcite small disrupted veins.		moderate to heavy disruption and contortion	Moderate Pyrite with quartz veins and in veins	1%
				376.7 B @ 53° (ss/sh)		
				378.3 B @ 60° (ss/sh)		
				380.6 B@ 65° (ss/sh)		
				383.0 B @ 55° (ss/sh)		
		383.6 ankerite vein 120mm @ 65°			383.6 chalcopyrite with ankerite vein.	5%
				385.0 B @ 40° (ss/sh)		
				387.5 B @ 45° (ss/sh)		

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RGE 45

LOGGED BY JD CRIMEEN FROM 375 TO 390 DATE 2/2/83 PAGE 3 OF 57

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	391.90	3.10	2.90	93.5
	395.00	2.80	0.70	25
	397.80	3.50	0.80	22.8
	401.30	2.30	1.10	47.8
	403.60	2.20	1.50	68.1

LITHOLOGY

DESCRIPTION: intercalated and interbedded carbonaceous black shale and dark grey siltstone with minor grey siltstone and fine-grained (and rare coarse-grained) tuffaceous sandstone.

ALTERATION: common quartz veination mostly in large, disrupted veins with sediment breccia to 395.4m then very little

394.3 quartz veins 1.1m @ ~ 19°.

STRUCTURE: heavy disruption and contortion soft sediment brecciation

401.0 B @ 42° (sh)

404.0 B @ 52° (sl/sh)

MINERALISATION: moderate disseminated Pyrite and with quartz veins — VISUAL PERCENTAGE MINERALISATION: 2%

394.5 vein contains Py 4 %, Po 1 %, Cp 2 % Asry 3 % — 10%

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED — **DRILLHOLE LOG FOR** DDH RSC 46D

LOGGED BY JD GRIMSEN — FROM 390 TO 405 — DATE 2/2/85 — PAGE 4 OF 57

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
405.80	2.50	0.30	12
408.30	0.90	0.60	66.6
409.20	1.50	1.40	93.3
410.70	3.00	2.80	93.3
413.70	3.00	2.90	96.6
416.70	1.70	1.50	88.2
418.40	2.90	2.90	100

LOST CORE

406 407 408 409 410 411 412 413 414 415 416 417 418 419 420

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and interbedded carbonaceous black shale and dark grey siltstone with rare grey siltstone and fine grained tuffaceous sandstone.	minor to moderate small and disrupted quartz veins		heavy to moderate disruption and contortions. ~3m core loss 409.0 B @ 55° (ss) 411.7 B @ 46° (sh/ss) 413.5 B @ 55° (sh/ss) 415.5 B @ 54° (ss/sh) 417.7 B @ 53° (ss/sh) 419.7 B @ 52° (ss/sh)	moderate pyrite with quartz, and in veins and fractures	1%

422420

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 46 D

LOGGED BY J.D. CRIMEEN FROM 405 TO 420 DATE 2/2/83 PAGE 5 OF 57

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	421.50	3.00	2.90	96.6
	424.50	4.80	4.50	93.7
	429.30	4.90	4.70	95.9
	434.20	4.70	4.70	100

421 422 423 424 425 426 427 428 429 430 431 432 433 434 435

SCALE 1:100 (1cm = 1m)

LITHOLOGY

INTERVAL

DESCRIPTION

intercalated and interbedded carbonaceous black shale and dark grey siltstone, with minor grey fine grained tuffaceous sandstone and grey calcareous siltstone.

ALTERATION

common small smooth and disrupted quartz and calcite veination

GRAPHIC LOG

STRUCTURE

moderate disruption and contortion

421.6 B @ 32° (sh/ss).

423.3 B @ 43° (sh/ss)

425.9 B @ 44° (sh/ss)

428.2 B @ 41° (sh/ss)

431.2 B @ 36° (ss/sh)

434.8 B @ 42° (ss/sh)

MINERALISATION

common Pyrite with veins and in veins and fractures
trace sphalerite, Pyrrhotite.

VISUAL PERCENTAGE MINERALISATION

2%

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RAE46D

LOGGED BY JDC FROM 420 TO 435 DATE 3/12/83 PAGE 6 OF 57

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	438.90	4.80	4.80	100
	443.70	4.80	4.60	95.8
	448.50	4.80	4.80	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	deformed carbonaceous black shale and dark grey siltstone.	common quartz / calcite veination.		local disruption and contortion 436.2 B @ 57° (s/sh) contact uneven but steep to c.a.	common [illegible] [illegible] and minor sphalerite in quartz veins	2%
436.6	gabbro. Green, altered, fractured, fine to medium-grained gabbro, with common carbonaceous infillings in fractures.	moderate small smooth and disrupted calcite veination		common brecciation contact unclear	barren.	
444.0	tuffaceous sandstone, siltstone. interbedded and minor intercalated brown-grey and grey siltstone and fine grained tuffaceous sandstone. to 450.2m.	moderate quartz / calcite small smooth and disrupted veination		moderate disruption, occasional brecciation. 446.6 B @ 56°. 448.7 B @ 60°.	minor pyrite with quartz veins	

Depth scale: 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450

422428

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KSC 461

LOGGED BY JD CRIMEEN FROM 435 TO 450 DATE 3/2/83 PAGE 7 OF 51

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	453.30	4.90	4.70	95.9
	458.10	4.80	4.80	100
	462.90	4.90	4.80	97.9

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	from 450.3 m intercalated and interbedded dark grey siltstone with carbonaceous black shale and grey siltstone.	moderate small and disrupted quartz veination.		moderate to heavy disruption and contortion 451.2 B @ 48° (ss/sh)	common pyrite and [illegible] Ferberite in [illegible] [illegible] and in veins and fractures	3%
	453.3 interbedded light and dark grey siltstone with occasional disrupted / deformed zones. alternating units around 10 mm thick each bed. dark units shaley, rare sandstone. "ZEBRA BEDS" as in RBE 46 (455.3 to 464.4 m).			453.5 B @ 40° (ss). 455.5 B @ 30° (ss) 457.6 B @ 38° (ss). 459.9 B @ 45° (ss/sh).		
	461.4 grey interbedded fine grained tuffaceous sandstone with minor siltstones and dark grey siltstone pellets			462.2 B @ 20° (ss/sh)		
	462.9 mixed sediments - intercalated and interbedded grey fine grained tuffaceous sandstone, grey and dark grey siltstone and carbonaceous black shale.			464.8 B @ 21° (ss/sh)		

SCALE 1:100 (1cm = 1 m)

422429

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46

LOGGED BY J.D. CRIMEEN FROM 450 TO 465 DATE 3/2/82 PAGE 8 OF 51

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	467.80	4.90	4.70	95.9
	472.70	4.90	4.80	97.9
	477.60	4.90	4.80	97.9

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	intercalated and interbedded grey siltstone and dark grey siltstone with carbonaceous black shale and grey fine grained tuffaceous sandstone	moderate, small, disrupted quartz / calcite veination.		moderate disruption 466.9 B @ 38° (ss) 469.0 B @ 44° (ss/sh)	Moderate Pyrrhotite / minor Pyrite with Quartz veins	1%
470.1	interbedded and intercalated deformed dark grey siltstone and carbonaceous black shale with minor grey siltstone and fine grained tuffaceous sandstone, also with white slightly silicified limestone / dolomite with stylolites some white calcareous			heavy disruption 471.1 B @ 57° (ss/sh) 473.4 B @ 42° (ss/sh) 476.3 B @ 32° (ss/sh) contact sharp @ 48°	Moderate Pyrrhotite / minor Pyrite with Quartz veins	5%
477.3	Gabbro. green-grey altered fractured fine to medium grained ~~Gf~~ Gabbro, with minor fracture fill of carbonaceous shale.	moderate small, disrupted quartz / calcite veination		common brecciation contact sharp @ 65°	Minor Pyrite [illegible]	
480.0						

SCALE 1:100 (1cm = 1 m)

422430

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH [illegible]

LOGGED BY J.D. CRIMEEN FROM 465 TO 480 DATE 3 / 2 / 83 PAGE 9 OF 57

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	482.50	5.10	4.90	96
	487.40	1.60	1.60	100
	489.00	4.90	4.90	100
	493.90	4.90	4.70	95.9

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	massive brecciated grey fine-grained tuffaceous sandstone.	minor quartz / calcite, small smooth and disrupted veination		unit massive, commonly fractured.	common "Spotty" patches (mm) of pyrite	2%
	484.4 intercalated and interbedded deformed calcareous mix of grey and dark grey siltstone minor black shale and grey fine grained tuffaceous sandstone.			heavy disruption and contortion 486.4 B @ 46° (ss/sh) 487.9 B @ 45° (ss/sh) contact sharp @ 58°	numerous quartz veins with pyrrhotite and minor pyrite common patchy pyrite	3%
488.1	**Gabbro.** Green grey fractured medium-grained gabbro. minor carbonaceous infilling	minor quartz / calcite veination mostly at top. small and smooth		common fractured. contact sharp @ 63°	barren	
491.1	**tuffaceous Sandstone, siltstone.** Predominantly grey fine-grained tuffaceous sandstone with grey siltstone and minor dark grey siltstone and rare black shale. 493.9 brecciated, deformed carbonaceous black shale, dark grey siltstone with minor grey calcareous siltstone, slightly silicified limestone? and grey fine grained tuffaceous sandstone to 495.2 m.	minor quartz / calcite, small smooth and disrupted veination. increase in vein content		heavily fractured. heavy disruption, soft sediment brecciation. 494.5 ?B @ 44° (sh)	minor pyrite with quartz veins	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBC 462

LOGGED BY G.D. CRISMEEN FROM 490 TO 495 DATE 4/2/83 PAGE 10 OF 57

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					496		intercalated and interbedded grey fine grained tuffaceous sandstone with grey siltstone with minor dark grey siltstone and carbonaceous black shale (6 mixed sediments RBE46 499.2 →)	moderate small smooth and disrupted quartz / minor calcite veination.		heavy disruption	trace pyrite and [illegible] with quartz veins.	
					497		497.1 Tuffaceous SS predom. c̄ minor interc. black shales. Grey, green. mg+fg	10% cal/qtz veining		Shale units strongly disrupted SS massive	<1% py	<1%
					498							
	498.80	4.80	4.70	97.9	499							
					500							
					501							
					502					501.9 B@ 42° (ss/sh)		
					503							
	503.60	3.20	3.20	100	504							
					505	505.8-506.4	replacement style Calcite vein - possibly a disrupted Lst bed: pale grey	Seds replaced by Ct and fract fill Ct veining			minor py aggregates	
					506		505.8 506.4 Black Carbonaceous Shales: thinly bedded + contorted c̄ massive intercalated tuffaceous ss units and silicified limestone bed	minor - mod Ct veination. selective silic of Lst unit 2-5cm.		505.8 C@ 58 506.5 B@ 85° (ss/sh)		
	506.80	4.90	4.90	100	507					Moderately contorted in carbonaceous units	py. blobs + up to 5% py in silic lst.	2%
					508							
					509							
					510	510.0				Contact sharp @ 20-35°		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RSE No1

LOGGED BY J D CRIMEEN FROM 495 TO 510 DATE 4/2/83 PAGE 11 OF 57

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	511.70	4.90	4.80	97.9
	516.60	4.60	4.50	97.8
	521.20	4.90	4.90	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Gabbro — dark grey-green. med grain to fine gr. occasional narrow sedimentary bands but contacts are indistinct	minor - mod calcite and minor qtz veining		.11 cm qtz - siderite vein 35°	minor veinlets of po in qtz-sid vein disseminated py blebs.	3%
515.3	Mixed Sediments - predominantly grey/green tuffaceous ss + slt st	mod carb. veining		515.9 B@ 20° slt st - disrupted common soft sed slumps + other deformational features. 517.5 B@ 43° slt/sst sharp contact @ 67° CIA	trace dissem py blebs	<1%
518	GABBRO dark green - porphyritic to fine grained common graphitic parting	moderate calcite, qtz + carb. veination		519.3 22cm Qtz-siderite/ankerite vein confused brecciated contact.	minor py — vein	<1%
522.3	Mixed Sediments predominantly kaki green tuffaceous ss with disturbed carbonaceous shale near upper contact	intense carbonate veining in shale + minor qtz veing very minor calcite veination ~ ss unit		SS units massive - shale higly deformed.		

SCALE 1:100 (1cm = 1 m)

422433

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RCF66D

LOGGED BY JAC FROM 510 TO 525 DATE 13/2/85 PAGE 12 OF 57

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	526.10	2.20	2.20	100
	528.30	4.90	4.90	100
	533.20	4.90	4.80	97.9
	538.10	4.90	4.90	100

SCALE 1:100 (1cm = 1m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
525	Mixed sediments - predominantly Tuffaceous ss med grained			526.5 B@ 35° sltst laminations Irregular sharp contact.	trace, fine pyrite	<1%
531.6	GABBRO Dark green, medium grained but chilled at contact	fine grained - chilled contact weak carb. veining (calcite)		Massive	trace syngenetic py	<1%
534.0	TUFFACEOUS SANDSTONE kaki green - med grained occasional graphitic partings Black graphitic shale unit near contact	weak calcite veining mod calcite qtz veining		Massive Contact sharp @ 50°		
539.1	GABBRO ? Dark green - med grained - coarse gr. partially resorbed sed. xenoliths !	weak calcite veining		Highly disturbed	tr. PY	

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 46D

LOGGED BY JAL FROM 525 TO 540 DATE 14/2/83 PAGE 13 OF 57

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	543·00	4·90	4·90	100
	547·90	4·90	4·90	100
	552·80	4·90	4·80	97·9

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
540·4				Indistinct Contact		
	Mixed Sediments Predominantly Tuffaceous sandstone.	mod carb. veinlets				
	Black siltstone common			543·5 B@ 38° sh/ss 543·9 soft sed bx^n ss/sh	trace py	
	Black siltstone common to dominant			544·9 B@ 30-35° ss/sl/sst slumpfeatures		
		intense carbonate veination				
				547·9 10cm qtz/carb vein	2% 5mm py blebs	
				552·2 V@ 46° 2cm av 552·9 V@ 45° 2cm av	10% sp in veins	
	Black siltstone predominates	Qtz/py/po veins becoming more common.				
554·8	Intense qtz, calcite, siderite veining of seds - minor sulphide	>60% veining - qtz/carb		brecciated + contorted	trace py + asp blebs	1%

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 46D

LOGGED BY JAL FROM 540m TO 555m DATE 14/2/83 PAGE 14 OF 57

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	557.70	4.80	4.80	100
	562.50	6.80	6.80	100
	569.30	2.80	2.80	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
556.5	555.6 Narrow mineralised vein } Hornfelsed Sediments - SS, SL 556.5	Int silicification / Hornfelsing + carbonate veining		Qz sulphide vein @ 55° Contact @ 45° sharp.	6cm vein of Qz, po 5%, py 10% asp 10%, carbonate	25%
558.4	Silicified Carbonate Horizon. blocky white/grey, fine grained - almost totally replaced Limestone? DST (correlated with Tin Zone in RBE 33).	Intensely silicified + stylolised (myriad of thin black carb or mn veins) - only minor unreplaced carbonate		Massive Contact @ 45°	py/po mostly confined to the crenulated black veins	3%
559.1	Hornfelsed Sediments - pale green/grey SS ± shale - contact mm	Contact mm by Dolerite		Strongly foliated @ lower contact contact @ 45°	minor py	1%
566	Dolerite. grey/green fgr → mgr Dolerite. common plagioclase visible - chloritised mafics indistinct	moderate qtz + calcite veining		Massive unit - vein dirns random Contact sharp 40°	Dissem py/po and also in veins c̄ qtz or carb.	
	MIXED SEDIMENTS Predominantly black shales c̄ minor calcareous pelites and limestone bands. - minor tuffaceous SS	moderate qtz/calcite veining		B@ 30° Black sh	dissem py/po blebs - often in crosscutting veins and along bedding partings	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 460.

LOGGED BY JAK FROM 555 TO 570 DATE 15/2/85 PAGE 15 OF 67

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	572.10	4.80	4.80	100
	576.90	4.80	4.80	100
	581.80	4.70	4.70	100

570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 565

SCALE 1:100 (1cm = 1m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
573.3	<u>Ultramafite</u> Olive green foliated, fine grained at contact (chilled)	3cm sulphide/qtz vein micaceous .. minor carbonate veining		contact 47° + vein Intensely foliated - Schistose in appearance	Vein Po 40% Py 30%	70%
				FL 15° (foliation)		
		- Vuggy Qtz asp, Py, Po - Sulphide/qtz vein		Qv @ 58° - 6cm DW Sulphide v @ 65° approx 6cm DW	Asp, Py Po Po - 50% Py - 10% cp 5%	30% 65%
				FL 65°		

422431

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH REE46D

LOGGED BY TAL FROM 571 TO 585 DATE 15/12/82 PAGE 16 OF 57

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					585		VLTRAMAFITE - foliated			FL @50°		
					586							
	586.50	4.80	4.70	97.9				slightly brecciated & less foliated				
					587							
					588					FL @53°		<1%
					589							
					590							
					591		occassional graphite bands					
	591.30	4.80	4.80	100								
					592							
					593							
					594							
					595		595.2-599.3 Large proportion of graphite partings			Foliated + highly contorted - even bx in places.		
	596.10	5.60	5.60	100	596							
					597							
					598							
					599							
					600		Broken core.					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KBE 469

LOGGED BY JAK FROM 585m TO 600m DATE 15/12/83 PAGE 17 OF 57

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
						Ultramafite sheared + foliated	[illegible] - carbonate - minor partially serpentinised		broken core - wedging ground		<1%
	601.90	1.40	1.40	100							
	603.30	4.80	4.80	100							
									Ft @ 24°		
	608.10	3.00	3.00	100							
	611.10	4.80	4.50	93.7					FL @ 10°		
									FL @ 0° // to Core axis		

600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE460

LOGGED BY JM FROM 600 TO 615m DATE 5/12/83 PAGE 18 OF 57

422439

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	615.90	4.10	4.10	100
	620.10	3.90	3.90	100
	624.00	2.40	2.30	95.8
	626.40	4.10	3.80	92.6

615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Ultramafite	phlogophite foliation?		minor ct veining	rare py	<1%
				FL @ 24° (foliation)		
				FL @ 48°		
				FL @ 53°		
				FL @ 38°		

422440

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RLE460

LOGGED BY JAz FROM 615 TO 630 m DATE 15/12/83 PAGE 19 OF 57

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	630.30	4.30	4.60	95.8	630		Ultramafite					
					631							
					652	651.9		Serpentinised near contact		irregular contact.	trace po/py	<1%
					633		Fault zone mainly white milky quartz with zones of entrained & bx wall rock.				trace py	<1%
					634	634.3						
	635.10	1.00	1.00	100	635		MIXED SEDIMENTS 634.3–635.5 Predominantly carbonaceous shales and buff coloured argillites tuffaceous ss content increasing	Indurated, common qtz/calcite veining		Highly contorted	minor dissem py blebs	1%
	636.10	5.00	4.90	98	636							
					637							
					638		Brownish green Tuffaceous sand-stone or Greywacke. fine - medium grained - zones of argillaceous sediments			638.4 B@ 24° SS		
					639							
					640							
	641.10	4.80	4.80	100	641							
					642							
					643							
					644					644.3 B@ 34° ss/shale 644.5 B@ 36° ss/shale		
					645							

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE46D.

LOGGED BY JAC FROM 630 TO 645m DATE 16/2/83 PAGE 20 OF 57

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					645		Tuffaceous sandstone /Greywacke.	minor carbonate alteration				
	646.90	4.90	4.80	97.9	646							
					647					647.2 B@ 37° ss/shale. 647.5 B@ 29° " "		
					648			648. 7mm Qtz/calcite vein		648 V@ 49°	minor py in vein	2%
					649			648.7 - 30mm Qtz calcite siderite/ankerite + sulphide vein		648.7 V@ ~45° (wallrock inclusion) or vein bifurcation	3% aspy 2% py.	5%
					650		Mainly finely laminated + plastically deformed shale - grey/brown/khaki quite indurated			650.2 B@ 60° shale		
	650.60	4.70	4.70	100	651							
					652			minor qtz/ct veining		651.9 B @ 17° shale	trace dissem py also in minor veins	<1%
					653							
					654							
					655			654.8 Qtz vein rimmed by Calcite	Ct Qtz	654.8 Qv @ 62° 3cm wide	2% py in vein	2%
	655.50	4.80	4.70	97.9	656		Shale/siltstone/sandstone mixture	655.6 Qtz/Ct vein		655.6 Qv @ 65° 2cm wide	tr. py	
					657					656.6 B @ 90°? sh/ss contact 656.9 B@ 79° " " "		
					658					657.6 B @ 82° " " "		
					659					658.3 B @ 86° " " "		
					660							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE46D

LOGGED BY JAL FROM 645 TO 660 DATE 11/2/83 PAGE 41 OF 51

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	660.30	4.80	4.80	100
	665.10	4.20	4.20	100
	669.30	4.80	4.80	100
	674.10	4.80	4.80	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Mixed Sediments : grey tuffaceous ss, siltst + black shale	moderate qtz + ct veining		Quite disturbed	py trace	<1%
	* Facing West - measurable in several locations			B@ 82° sh/ss contact " sedimentary Bx B@ 80° graded bedding facing = uphole = West		
		Moderate to intense qtz/ct veining		Bedding strongly disrupted from here down. - no reliable reading	trace dissem pyrite	<1%
	Hornfelsed Sediments Brown - pale green thermally m/m sandstones. Dark grey brittle cherty argillites	-672.6 Start of Hornfelsing Green tremolite/actinolite veining + minor calcite/qtz veining (late stage?)			trace py	<1%

422443

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE460

LOGGED BY JAL FROM 660 TO 675m DATE 21/2/83 PAGE 22 OF 57

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	678.90	4.70	4.70	100
	683.80	4.80	4.80	100
	688.60	4.70	4.60	97.8

Depth scale: 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
		18 cm Qtz sulphide vein		vein @ 60° approx	py 1% sp 2% gn 2%	5%
675.2	Sulphide bearing black shales Black, fine grained. minor sandy units becoming more frequent downwards	Quite hard, hornfelsed/indurated py altered to po		Qv @ contact 65° (1cm)	Qv contains po 1% asp 2%	3%
		Greenish Qtz/sulphide/tremolite-actinolite veins common		Qv @ 30°. 1cm	Black shale contains about 5% po oriented approx in bedding dirn in ovoid blebs also in x cutting veins up to 1cm	3-4%
	Greenish or brownish ss units	Brown colour ⇒ biotite?		B @ 52° ss unit		
679.9	Dark brown – pale brown tuffaceous Sandstone	Hornfelsed – green tremolite/actinolite veins				
680.6	Qtz/Siderite/Sulphide vein (50 cm wide).	Zoned vein	gnsp po [illegible] gnsp	Vein @ 60 approx	10 cm massive po +/ 2% sp/1% asp narrow sp/po/gn veinlets	30%
	Hornfelsed Sediments Dominantly Brown tuffaceous ss + argillites (finely bedded)	Hornfelsed – biotite development in ss? – green act/trem veins after CT ⇒ some metasomatism		682.5 B @ 72° ss band 682.8 B @ 60° ss/argillite contact 683.7 B @ 40° – facing from graded bedding uphole		
	Facing of beds – uphole.					
		minor late stage CT veins		Bedding disrupted		
				686 B @ 30° argillite – well bedded		
				Bedding crumpled		

422444

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE46D

LOGGED BY JAL FROM 675 TO 690 DATE 21/2/83 PAGE 23 OF 51

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
						Hornfelsed Sandstones + Argillite Becoming more calcareous			691.5 B@70°	Dissem po blebs + veinlets	3%
					692.6m	Calcareous Pelite Dark grey fine grained calcareous pelite and impure limestones - quite finely bedded	mod - int ct/qz veing		Bedding somewhat contorted + disrupted by x cutting ct veins		
	693.50	4.90	4.80	97.9					695.6 B@67° 696.3 B@65°	2-3% po concentrated along B. planes and in x cutting veins. Minor po replacement of purer lst beds.	2-3%
	698.20	4.70	4.70	100					698.3 B@78°		
					700.7	Hornfelsed Sediments predominantly green/grey tuffaceous ss and argillite	700.7 - 702.1 60% barren Quartz veining (most subordinate calcite).		Disrupted Bedding	minor po in Qv	1%
	702.90	3.00	2.90	96.6							

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE46D

LOGGED BY JR FROM 690 TO 705 DATE 21/2/83 PAGE 24 OF 51

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
				705					705.3 B@ 60° approx siltstone band		
705.90	4.90	4.70	95.9	706		limey beds becoming frequent after 706m	Selective partial metasomatic replacement of limey beds by qtz/tremolite-actinolite +po			up to 20% po in replaced lst.	4%
				707					707 Vein 13 cm wide @ 52°	Zoned vein core = semi massive po/cp - borders = diss po/cp in qtz/siderite	30%
				708							
				709							
				710		Hornfelsed sandstones + argillite grey-green-brown - fine-med grained	tremolite/actinolite/qtz veins after calcite and common ~~to~~ metasomatism		Bedding disturbed	po blebs seen in trem/act veins	1-2%
710.80	4.90	4.80	97.9	711							
				712							
				713					713.1 B@ 61° ss/shale 713.7 B@ 64° shale/calcareous bed.		
				714							
				715							
715.70	4.60	4.60	100	716					716.0 B@ 45° siltstone/shale		
				717							
				718							
				719			718.6 – 719.2 Qtz vein + 20% siderite	QV	barren Qv		
				720							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE460

LOGGED BY JAC FROM 705 TO 720 DATE 21/2/83 PAGE 25 OF 51

422446

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
720.30	4.10	3.70	90.2
724.40	4.90	4.90	100
729.30	4.90	4.90	100
734.20	4.90	4.90	100

720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
721.3	Hornfelsed Sediments - dominantly argillaceous but containing increasing proportion of replaced limey beds.	thin lsr beds replaced by sulphides		720.6 B @ 36° Gradational contact	po in replaced calc beds up to 10%	5%
726	Calcareous Pelites - grey calcareous pelites and pale dirty limestones containing [illegible] - sep argillaceous units	Selective replacement (of purer beds?) by sulphides Decomposed/soft in places - surprisingly unaltered by thermal mm/metasomatism		Sulphide replacements @ 45° 722.1 722.5 724.7 B @ 67°	} 30% replacement by asp/po minor po	3% 1%
733.6	Hornfelsed Sediments Dominantly pale brown argillites ī minor arenaceous bands and common partially or totally replaced calcareous bands	Hard - thermally m/m - hornfelsed. Calcareous bands/veins replaced by tremolite/actinolite/qtz ± sulphide		Vein @ 38° (6cm width)	40% po/cp in trem/act vein overall 3% po in veins + blebs	3%
	Calcareous Pelites Thinly banded dark grey calc pelite + light grey limestones + dirty limestones	moderate x cutting ct veins. weak sulphide replacement			po mostly confined to [illegible]	[illegible]%

422447

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46D

LOGGED BY JAC FROM 720 TO 735 DATE 21/2/83 PAGE 26 OF 57

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					Calcareous Pelites			B@ 77° limestone		
								737.5 B@ 78° Lst		
739.10	4.90	4.90	100							
								740.2 B @ 67° Lst/argillite		
								Crenulated bedding		
744.00	5.00	4.90	98							
				744.9	Hornfelsed Sediments argillite + arenite grey-buff coloured. fine grained	Hornfelsed - tremolite/actinolite/sulphide veining & metasomatic effect on calc bands.			4% po in veinlets + replacement bands	4%
								747.9 B@ 68° replaced calc bands		
								748.5 B@ 66° " " "		
749.00	4.90	4.90	100							

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE460

LOGGED BY .... FROM 735 TO 750 DATE / / PAGE 21 OF 57

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	753.90	4.90	4.90	100
	758.80	5.10	4.80	94.1
	763.70	4.90	4.90	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
750–755.1	Hornfelsed Seds	Hornfelsing – act/trem veining + replacement – 8cm Qtz/Fluorite vein		Graded Contact	5-10% po replacement	
755.1–762.8	Calcareous Pelites impure lst, calc. sandstone & mudstones.	mod- intense cr veining mod po/ax/trem/act replacement.		B @ 45°. 758.4 B@50° 761.9 B @58°	minor po replacement 756.5 15cm po/axinite vein	2% 30%
762.8–	Hornfelsed Sediments Black Shales, siltstones and minor sandstones grading downwards into predominantly basaltic tuffs – black or dark grey in colour.	common Qtz, actinolite/tremolite veins ± sulphides Hornfelsing is strong		Disrupted Bedding	Abundant po/py esp. in veins c̄ act/trem/qtz [illegible] disseminated blobs [illegible] shales	

SCALE 1:100 (1cm = 1 m)

42240

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 66D

LOGGED BY JAK FROM 750 TO 765m DATE 21/3/83 PAGE 28 OF 57

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					765		Hornfelsed Sediments					
					766							
					767		Dark basaltic sands + tuffs common	less veining in basaltic units		767 Fault Zone rock soft + decomposed + minor Qtz veining + shearing		
					768					768		
	768.60	5.00	4.80	96	769					769 Be 66° ss units		
					770							
					771		Dominantly fine grained Basaltic Tuffs + possibly fine grained (spinitic) basalts	mod - strong Quartz veining ± carb/act ± sulfid		lack of bedding	py/po in veinlets	1%
					772							
					773							
	773.60	4.90	4.90	100	774							
					775							
					776							
					777					Bedding contorted + sigmoidal		
					778					778 Be 55° Black Se + SS		
	778.50	4.80	4.80	100	779							
					780							

SCALE 1:100 (1cm = 1 m)

422450

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46 D.

LOGGED BY JAK FROM 768 TO 780m DATE 25/2/83 PAGE 29 OF 57

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	783.30	5.50	4.40	69
	788.80	4.90	4.90	100
	793.70	1.20	1.70	141
	794.90	4.60	4.60	100

780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795

SCALE 1:100 (1cm = 1m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Hornfelsed Basaltic Tuffs + shales Dark Basaltic tuffs + tuffaceous sandstones fine grained → med grained. Interbedded black shales	Qtz/actinolite/tremolite veining common + minor late stage qtz/ct		782.8 B@59° Tuffaceous sa+ss	minor sulphides c̄ veins + dissem.	1%
	Interbedded Hornfelsed tuffaceous sandstones + argillites - green/brown mottled - white acid tuff bands	strong hornfelsing + qtz act/trem veining possible selvedge metasomatism along fractures.		785.6 B@73° sh/ss contact.		1%
				788.5 B@73 bedded argillites		
				790.4 B@75° thinly bedded argillites		

422457

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE46D

LOGGED BY JDL FROM 780 TO 795 DATE 15/2/82 PAGE 30 OF 57

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
799.60	4.70	4.80	102
804.50	4.90	4.90	100
809.20	4.90	4.90	100

Depth scale: 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Hornfelsed sandstone (tuffaceous) and argillites – buff-brown-grey (mottled in places) fine to med grained	moderate act/tremolite veining – noticeably less in thick fine grained units – porous units are most amenable to hornfelsing		796.4 B@ 65° argillites		<1%
	Fault Zone from 803.5 – 806.5. Qtz infilling, brecciated margins + shearing		Shearing Qtz Shearing	802.8 B@ 77° argillites Fault 11° CIA FaulT 17° CIA	Base metal mineralisation in Bx margins – overall PY 4% SP 3% gn 1% Qtz zone barren	8%

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE460

LOGGED BY JAL FROM 795 TO 810 DATE 05/12/83 PAGE 51 OF 57

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
814.10	4.90	4.55	96.9
819.00	4.50	4.50	100
823.80	4.90	4.90	100

LITHOLOGY

Depth (m)	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
810		Hornfelsed sandstones + argillites darkgrey - grey - brown - green. medium fine grained	Hornfelsing strongest near brecciated zones and coarser units minor late stage calcite Actinolite - tremolite				
811					811.6 B@ 70°	minor	<1%
812							
813							
814			814.7 15cm Qtz vein c̄ well developed fibrous amphibole crystals.				
815							
816			816.3 1cm late stage qtz/calcite vein		816.3 Vein at 10°		
817							
818							
819			819.3 Spotty alteration pattern in hornfelsed seds - quite intense metamorphism ↓				
820							
821							
822			spotty effect variably developed ↓				
823							
824							
825							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE460

LOGGED BY IAL FROM 810 TO 825m DATE 28/2/83 PAGE 32 OF 57

422153

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
			825		825.8 - 826.3 Black shale band bearing sulphides			Bedding disturbed 50-70°	5% py/po <1% Cp/Sp	6%
			826		Hornfelsed Argillites + Arenites	weak hornfelsing qtz/calcite ⇔ actinolite tremolite vary		Contorted + softsed bx	minor sulphides	<1%
			827							
			828							
828.70	4.90	4.90	100 829							
			830							
			831		Black shales	830.9 - 831.2 Qtz/Ankerite vein	QV	QVe 63	Sulphide veinlets in Qtz/carb vein mainly py c trace Aspy/po	5%
			832			Strong Qtz + Qtz/trem/act veining - stockwork				
			833					Bedding Disturbed		
833.60	5.00	5.00	100 834			80% replacement				
			835			835.4 - 835.7 Qtz/Ankerite vein	QV	Qvein @ 55° approx	Qtz vein includes some Sphalerite veinlets	2%
			836		Hornfelsed Argillites and arenites minor acid tuff phases. - gray-green brown in colour. - fine to med grained	moderate qtz tremolite/actinolite veinlets + later calcite veinlets		No distinct foliation or bedding - minor bx	minor	<1%
			837							
			838							
838.60	4.70	4.75	101 839							
			840							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RDE 46 D

LOGGED BY JAL FROM 825 TO 840 DATE 25/2/93 PAGE 33 OF 57

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
843.30	4.90	4.90	100
848.20	4.70	4.70	100
852.90	2.90	2.90	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
840	Hornfelsed Sediments	veining + hornfelsing			minor	<1%
854				Minor brecciated zone		

840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 66 D

LOGGED BY JAL FROM 840 TO 855 DATE 28/12/83 PAGE 34 OF 57

398

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
855·80	4·80	4·90	102
860·60	5·20	5·20	100
865·80	5·00	5·00	100

LITHOLOGY

Scale	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
855		Vein 855·8 – 856·1	Quartz calcite vein + minor sphalerite		V@ 45°	minor sulphide veinlets	small %
856					V@ 50°	855·7 = 5cm × 30% sphalerite veinlet	
857		Hornfelsed argillites and arenaceous sandstone			857·4 B@ 30-35° somewhat disturbed argillite beds.		
858			Qtz/sphalerite/calcite vein		858·5 V@ 70°	Vein contains 5% sphalerite +1% gn +1% pyrite	
859					859·8 B@ 52°		
860							
861							
862							
863					863·5 B@ 65°		
864							
865							
866							
867							
868							
869							
870							

SCALE 1:100 (1cm = 1 m)

422456

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE46D

LOGGED BY JAL FROM 855 TO 870 DATE 25/2/82 PAGE 35 OF 57

LOST CORE	DRILL ADVANCE DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		LITHOLOGY INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					870		Grey hornfelsed Tuffaceous sand-stones of predominantly basaltic composition - med-fine grained	minor actinolite/tremolite veining			nil → trace	
	870.80	4.90	4.90	100	871							
					872							
					873		minor argillaceous bands			873.6 B@ 65°		
					874							
					875							
	875.70	5.00	4.95	99	876							
					877							
					878					878.2 B@ 75°		
					879					879.4 B@ 65°		
					880							
	880.70	3.40	3.40	100	881							
					882							
					883							
	884.10	4.90	4.90	100	884							
					885							

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46D

LOGGED BY JAL FROM 870 TO 885 DATE 25/2/83 PAGE 36 OF 57

422451

400

LITHOLOGY

422458

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	889.00	4.90	4.90	100
	893.90	4.90	4.90	100
	898.80	4.20	3.15	75

885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900

SCALE 1:100 (1cm = 1m)

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
885	Hornfels Tuffaceous Sandstone Grey to grey-brown. medium to fine grained	moderate hornfelsing and minor qtz/carb/brown veins - occasional late stage calcite veins		Massive	minimal	
				889.4 B @ 65° (Sa)		
				889.6 B @ 65° (Sa)		
		893.6: 3cm sulphide vein + carbonate		Vein @ 75°	893.6 3cm vein 50% Cp 5% Po	55%
898.0 – 898.9	Black shale with occasional interbedded calcareous unit	partial silicification of calc. beds & replace by sulphide	▨	B @ 50°	5% Po	5%

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH RBC 460

LOGGED BY JAL FROM 885 TO 900 DATE 26/1/93 PAGE 37 OF 57

401

422459

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	902.00	0.60	0.65	108
	902.60	5.00	5.00	100
	907.60	5.00	5.00	100
	912.60	5.00	5.10	102

LITHOLOGY

DEPTH	INTERVAL	DESCRIPTION	ALTERATION	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
900						
901						
902	902–903	Black shale unit within sandstone		Contorted	minor disseminated + veinlet pyrrhotite	2%
903		Hornfelsed tuffaceous ss + interbedded argillite	mod chl/act/tourm + sulphide veining			
904						
905						
906				QV @ 42°		
907						<1%
908				908 B@ 63° (Sa)		
909						
910				909.9 B@ 70→65° (Sa)		
911						
912				Core broken		
913						
914						
915				914.9 B@ 56° (Sa)		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 460

LOGGED BY JAL FROM 900 TO 915 DATE 25/2/83 PAGE 38 OF 57

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	917.60	5.00	5.10	102
	922.60	0.40	0.60	150
	923.00	4.90	4.90	100
	927.90	4.80	4.75	98.9

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Hornfelsed Sediments Predominantly grey tuffaceous sandstone with intercalated argillaceous bands.			915.7 B@ 61-63° (argillite)		
				918.8 B@ 50°		
				919.8 B@ 20° facing uphole?		
				921.9 B@ 58°		
				922.6 B@ 58°		
		923.8 Strong fg/act/trem etc 924.8				
				924.8 Sulphide vein @ 50°	2mm wide sulphide vein 60% po 5% cp	6%
		minor quartz veination			trace cp	2%
				929.7 B@ 63°		

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KBE46D

LOGGED BY JAL FROM 915 TO 930 DATE / / PAGE 39 OF 57

DRILL ADVANCE

LITHOLOGY

422461

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
				930		Hornfelsed Sediments dark grey interbedded tuffaceous sandstone and siltstone	weak hornfelsing + minor veining			minimal	<1%
				931							
				932					932.0 B@ 66 932.3 57 932.6 52 932.9 70		
	932.70	4.90	4.90	100							
				933							
				934							
				935			935.6 brown 4cm qtz/cr vein 935.9–936.1 Qtz/carbonate minor qtz/carbonate/py			30% Sphalerite + py 5% py	30% 5%
				936							
				937					937 - B@ 52		
	937.60	4.90	5.00	102							
				938			938 – 939.6 70% Qtz veining		vein @ 48° vuggy vein @ 63°	939.0 - 2cm fine gr vein disseminated sphalerite	90% 2%
				939							
				940							
				941							
				942			Quite brittle and hard Hornfelsing		942 B@ 45° 942.9 B@52°		
	942.50	5.00	5.00	100							
				943							
				944							
				945							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE46D

LOGGED BY JAL FROM 930 TO 945 DATE / / PAGE 40 OF 57

422462

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
947.50	5.00	4.90	98
952.50	4.90	4.90	100
957.40	4.90	4.80	97.9

SCALE 1:100 (1cm = 1 m)

945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	<u>Hornfelsed Tufaceous sandstone and siltstone</u> basic composition - feldspars visible in coarser grained units - dark grey.	weak actinolite/tremolite veining - later stage calcite veining		facing up hole	minor sulphides in veins	<1%
				948.8 B@ 54°		
				950.2 B@ 65 facing upwards.		
				951.7 B@ 41		
				955.3 B@ 62°		
				956.1 B@ 69°		
				957.3 B@ 66°		

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 460

LOGGED BY JAL FROM 945 TO 960 DATE 1/3/83 PAGE 41 OF 57

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422463

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	962.30	4.30	4.30	100
	966.60	4.80	4.90	102
	971.40	4.10	4.10	100

960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
				possible contact @ 35°?!		
972.7	GABBRO dark grey → black. fine grained at contact except for occasional 1mm stubby feldspar laths (absent in overlying tuffs)	Contact is not clear as gabbro is fine gr at contact and overlying tuffs are of similar composition		Massive except for graphitic partings probably due to entrained and partially adsorped wallrock (seds).	Nil	—

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RLE46D

LOGGED BY IAL FROM 960 TO 975 DATE / / PAGE 42 OF 57

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422464

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	975.50	4.70	5.00	106.3
	980.20	4.70	4.70	100
	984.90	5.00	5.00	100
	989.90	5.00	5.00	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	Gabbro - medium - coarse grained with 2mm laths of feldspar and ferro-magnesian (locally altered to pale variety of pyroxene) - dark speckled appearance.	Minor qtz veining		977 minor shearing + qtz/sulphide infilling	10cm qtz/asp (20%) py (5%)	25%
					trace	<1%
985.9	Chilled margin to Gabbro	Weak shearing + Qv		Contact sharp @ 48°	trace py at contact	
	HORNFELSED SILTSTONE + FINE TUFFACEOUS sandstone (basic)	minor qtz/qtz-actinolite veining		Massive	Veining ± minor po	1%
		silicified + sulphide replaced calcareous beds (10cm)		989.4 B@ 60° replaced calc. beds	10cm of 30% replacement po	10% /1m

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE46D

LOGGED BY JAL FROM 975 TO 990 DATE / / PAGE 43 OF 51

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422465

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					990		Hornfelsed siltstones & sandstones (tuffaceous) basic composition			990.5 B@60° banded siltstones		
					991							
					992			↓ increasing actinolite as proportion of Ca increases				
					993		993.9 Calc. pelites – banded black and gray calcareous skarns / dirty limestones	Calcite veining – not strongly affected by thermal effects.		Bedding disrupted but approx 55°	minor	
					994		994 Hornfelsed mixed sediments					
	994.90	5.00	5.00	100	995		brown-green-pale gray. Intermediate feldspathic tuffaceous sandstones interbedded with argillites + replaced calcareous units	thin calcareous units replaced by actinolite ± sulphide.			≈ 2% po + py usually with actinolite	2%
					996					996.3 B@50°		
					997							
					998			Bleached + speckled pale green – white – brown (depends on grain size).		997.8 B@55° 998 B@60° 998.5 B@55° ↑ facing		
					999							
	999.90	5.00	5.06	101	1000					1000 B@65° ss/sa		
					1001						2cm act/po vein	
					1002		Dark siltstone unit					
					1003					Very disturbed ground.		
					1004							
	1004.90	4.90	5.00	102	1005							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 460

LOGGED BY JAL FROM 990 TO 1005 DATE 1/3/83 PAGE 44 OF 57

422466

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	1009.60	4·90	4·90	100
	1014·70	4·70	4·70	100
	1019.40	4·90	5.00	1·02

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL

DESCRIPTION

Hornfelsed Mixed Sediments

grey – med to fine grained tuffaceous sandstone + siltstones of basic – intermediate comp. often feldspathic.

occasional Ca-rich beds altered to actinolite qtz assemblage.

Some med grained feldspathic sandstones.

ALTERATION

mod. actinolite veining ± qtz

← preferentially hornfelsed ⇒ greater permeability

GRAPHIC LOG

STRUCTURE

1005.6 B@ 64° pale ss band.

1012.5 B@ 67° ss/sa Tiny

1015.5 B@ 62° sh/sa

1016.1 B@ 60° sa/ss

1020 B@ 65° sh/ss

MINERALISATION / **VISUAL PERCENTAGE MINERALISATION**

trace py/po in veinlets <1%

trace cp <1%

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH RBE 660

LOGGED BY JAC

FROM 1005 TO 1020

DATE 3/3/83

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422467

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					<u>Hornfelsed mixed sediments</u> pale grey – dark grey – brown feldspathic tuffaceous sandstone, siltstone + carbonate beds	Carbonate → actinolite qtz. weak late stage calcite.		Some brecciation – probably soft sediment ē minor tectonic component.	trace	≤1%
					Dominantly sandstone. ↓					
1024.30	4.90	4.90	100							
									1029.3 1cm qtz vein ē 10% cp	10% / 0·01
1029.20	5.00	5.00	100							
								1031.5 B@ 60 Sa.		
1034.20	4.90	4.80	97.9							

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE66D

LOGGED BY JAL FROM 1020 TO 1035 DATE 3/3/83 PAGE 66 OF 57

DRILL ADVANCE

LITHOLOGY

422468

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
				1035		Hornfelsed Mixed Sediments Dominantly dark coloured, med–fine grained [illegible] sandstone	weak epidote veining + pyroxene and hornfelsing)		Quite massive units	trace py/po ±cp ... veinlets	<1%
				1036					1036.6 B@57 30/35		
				1037							
				1038							
1039.10	1.30	1.25	96.1	1039							
				1040							
1040.40	4.90	5.00	102						minor zone of brecciation (soft sed)		
				1041							
				1042							
				1043					Approx Contact		
					1043.[illegible]	Replaced calcareous sediments replaced thinly bedded seds - possibly calc-pelites pale - olive green	Strong silicification and alteration to actinolite + pyrrhotite assemblage		Bedding 50 - 60°	10% Po – replaced beds patchy	10%
				1044							
				1045		No more obvious bedding either obliterated by alteration or unit the p metamorphosed sandstone (calcareous)	pink colouration due to fine garnet? hematite?		veining mod - intense	10% Po - mostly in veins	10%
1045.30	4.90	4.90	100								
				1046							
				1047		↓					
				1048		probably calc-silicate Mixed calcareous sandstone.	↓		↓	↓	
				1049							
				1050							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KBE 66D

LOGGED BY JAL FROM 1035 TO 1050 DATE 3/3/83 PAGE 47 OF 57

DRILL ADVANCE | LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
1050.20	4.90	4.90	100	1050		Replaced calcareous Sediments (calc-sil hornfels) mottled pale green → brownish red calc-sil hornfels	pervasive qtz-diopside? - garnet? alteration + qtz/actinolite veins		Strongly disturbed (veined + brecciated) some bedding remnants v.c.s.c	10% po in veins + replacement beds.	10%
				1051							
				1052							
				1053							
				1054		becoming grey in colour	weaker alteration (rocks less amenable) mainly silicification				
1055.10	4.80	4.80	100	1055							
				1056	1056	interbedded black shale.					
				1057		Black shales with interbedded calcareous units (common) - surprisingly monotonous - phased	remobilised py in to fractures + altered to po - calcareous horizons not replaced or altered limestones recrystallised		B@50°	po in veins + along bedding planes	5-10%
				1058					well bedded - contorted		
				1059		Calc. pelite common.					
1059.90	4.80	4.80	100	1060					1060 B@57°		
				1061			weak qtz/calcite veining				
				1062					1062 B@58°	1062.6 1062.7 } 20% po along bedding planes	20% .3m
				1063							
				1064							
1064.10	4.80	4.80	100	1065					1064.7 B@4°		

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH BRE46D

LOGGED BY JAL FROM 1050 TO 1065 DATE 3/3/84 PAGE 48 OF 57

DRILL ADVANCE

LITHOLOGY

422470

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					1065		<u>Black Shales</u> carbonaceous c̄ interbedded calcareous horizons	py → po and remobilised into veinlets			po in vlets	10%
					1066							
					1067							
					1068							
					1069							
	1069.50	4.80	4.60	100								
					1070					crenulated bedding BO 65°		
					1071							
					1072							
					1073		Calcareous	intense qtz/calcite veining			mostly po between py	10-15%
					1074							
	1074.34	4.90	4.90	100								
					1075							
					1076							
					1077							
					1078			Actinolite veining (after calcite) appearing ↓				
					1079							
	1079.20	4.90	4.90	100						1079.5 BO 75°		
					1080							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RIBE 46 D

LOGGED BY JAL FROM 1065 TO 1080 DATE / / PAGE 49 OF 57

422471

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
				1080 1081 1082 1083 1084	1084.1				contact indistinct		
	1084.10	5.00	4.95	99 1085 1086 1087 1088 1089		Fine Grained Gabbro Finely crystalline basic, feldspathic rock. all very even grainsize - may even be flow rock.	very weak veining - slight bleaching near contacts		Massive unit	barren.	
	1089.10	4.90	4.90	100 1090 1091 1092 1093 1094	1094				Contact brecciated		
	1094.00	4.80	4.80	100 1095		Hornfelsed Mixed sediments Tuffaceous sandstone and siltstone	med qtz/carb veining			Nil	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH KBF46D

LOGGED BY SAL FROM 1080 TO 1095 DATE 3/3/83 PAGE 50 OF 57

422472

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					1095		Hornfelsed mixed Sediments	mod-minor cal/qtz veining ± Hornfelsing				
					1096						minor po in veins	1%
					1097							
					1098		grading to			1098 B@55° sa		
	1098.80	4.90	4.90	100	1099		Black carbonaceous shales at 1099m.	py -> po + remobilised into veins + bedding planes			10% po in bedding planes + veins	10%
					1100							
					1101							
					1102							
					1103					1102.7 B@45° black sh.		
	1103.70	1.70	1.70	100	1104							
					1105							
	1105.40	4.80	5.00	104	1106			10cm calcite vein				
					1107							
					1108		1107.3 Calcareous units becoming very common.					
					1109							
					1110							

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 460

LOGGED BY JAL FROM 1095 TO 1110 DATE 3/3/83 PAGE 51 OF 57

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY		INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	1110.20	4.80	4.80	100	1110		Hornfelsed - mixed Sediment - black shale.			1010.5 B@71° sh.	5-10% po	5-10%
					1111							
					1112		1111.8 Hornfelsed Tuffaceous sandstone unit become common & interbedded with siltstone + black shale.					
					1113							
					1114		Calcareous unit common	1114.5 Calc-silicate alteration of interbedded calcareous unit				
	1115.00	4.90	4.90	100	1115							
					1116							
					1117							
					1118							
					1119		1119 Black carbonaceous shale				10% po	10%
	1119.90	4.80	4.80	100	1120							
					1121							
					1122		1121.8 } Altered calcareous unit 1122.65 } pale green	Strong calc-silicate alteration - qtz-actinolite po-py-axinite			5% py 15% po	20% .8m
					1123		Mainly black shale & interbedded altered limestone units	Skarn				
					1124						mostly po in black shale	5-10%
	1124.70	4.90	5.00	102	1125							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RRE46D

LOGGED BY JAL FROM 1110 TO 1125 DATE / / PAGE 52 OF 57

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	1129.60	4.90	4.90	100
	1134.50	4.90	4.90	100
	1139.40	4.80	4.80	100

LITHOLOGY

422474

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
1125	Calc-silicate hornfels + black shale	act/trem/qtz calc-sil hornfels py→po in veins in shale		1126.2 B@45° SL.	5-10% po + py in veins + c̄ calc-sil hornfels	5-10%
1128		~				
1129	1128.8 Black shales interbedded with buff-grey tuffaceous sandstone	Sh hornfelsed minor act veins		1129.3 B@65° (3 readings) 1130.0 B@55° 1130.6 B@55°	2-3% po in veinlets	3%
1134	Some coarse feldspathic units.					

1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46D

LOGGED BY JAL FROM 1125 TO 1140 DATE / / PAGE 53 OF 57

422475

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
1144·20	4·60	4·70	97·9
1149·00	4·80	4·80	100
1153·80	5·00	5·00	100

LITHOLOGY

	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
1140		Hornfelsed Sediments mainly grey - whitish - brown tuffaceous feldspathic sandstones	weak - moderate actinolite ± qtz veinig		1140·3: B@56° Sa	minor sulphides	1%
1141							
1142			10cm actinolite vein			15% po in vein	15% 0·1m
1143							
1144							
1145							
1146							
1147							
1148							
1149							
1150							
1151							
1152					1152·5 B@72°		
1153							
1154							
1155							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46 D

LOGGED BY JAC FROM 1140 TO 1155 DATE / / PAGE 54 OF 57

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LITHOLOGY

422476

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	1158.80	4.80	4.85	101
	1163.60	5.00	5.00	100
	1168.60	5.00	5.00	100

Scale depths: 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	<u>Hornfelsed Mixed Sediments</u> Interbedded black shales + tuffaceous sandstones. + dirty limestone bands.	Hornfelsed + cct/qtz veining (mod).		Bedding contorted 1162.9 B@ 72° SL	2% po – in black shales.	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE46D

LOGGED BY JAL FROM 1155 TO 1170 DATE 3/3/83 PAGE 55 OF 57

422477

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					Hornfelsed mixed sediment dominantly grey-green-brown tuffaceous sandstone	mod actinolite veining ± qtz ± tremolite			po in veinlet c̄ qtzite	1%
								1172.5 B@ 70° Sa		
1173.60	4.10	4.60	102							
1178.30	4.80	4.85	101							
								1181.1 Be 57-62° salsh		
						1181.62 – 1182.5 Qtz/act vein				
1183.10	3.40	3.10	91.1							

1170 1171 1172 1173 1174 1175 1175 1177 1178 1179 1180 1181 1182 1183 1184 1185

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46 D

LOGGED BY JAL FROM 1170 TO 1185 DATE / / PAGE 56 OF 57

DRILL ADVANCE

LITHOLOGY

422478

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
				1185		Grey laminated tuffaceous sandstone. fine grained / feldspathic	minor cal/qtz veining + baking		massive	nil	—
				1186							
	1186·50	1·80	1·80	100 %							
				1187							
				1188							

EOH = 1188·3m

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 46 D

LOGGED BY JAL FROM 1185 TO 1188·3 DATE 3/3/83 PAGE 57 OF 57

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422479

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	40	170		310	875	1.0	84	85								
350.10	70	320		320	865	2.5	4200	80								
353.10	130	195		2.35%*	4650	36	1900	115				* By method 104.				
356.40	120	255		900	3100	6.5	7100	60								
359.30																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46 D

ASSAYED BY ANALABS FROM 345 m TO 360 m DATE 14/4/83 PAGE 1 OF 57

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	95	195		335	680	3.0	220	85								
362.30	25	130		125	6500	2.5	83	45								
365.30	15	125		120	1250	1.5	84	105								
368.30	35	420		70	180	1.0	290	80								
371.30	15	105		10	95	2.0	210	90								
374.30																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46 D

ASSAYED BY ANALABS FROM 360 TO 375 DATE 14/4/83 PAGE 2 OF 57

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422481

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	4	125		20	140	1.0	40	115								
377·50	10	120		35	400	0.5	97	110								
380·30	50	115		475	965	2.0	150	80								
383·30	10	875		445	2500	7.5	530	75								
386·30	9	100		190	425	1.5	85	80								
389·30																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46D

ASSAYED BY ANALABS FROM 375 TO 390 DATE 14/4/83 PAGE 3 OF 57

422482

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	200	130		355	1000	3·5	110	95								
392.30	320	1300		95	400	4·5	3750	60								
395.30	100	180		55	85	0·5	110	100								
398.30	5	85		25	75	0·5	50	75								
401.30	10	115		15	95	1·5	21	135								
404.30																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 46 D

ASSAYED BY Analabs FROM 390 TO 405 DATE 14/4/83 PAGE 4 OF 57

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422483

405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG								SAMPLE NUMBER
	45	275		10	145	0.5	39	165									
408.30	8	115		BLD	70	0.5	60	100									
411.30	9	105		BLD	85	0.5	62	120									
414.50	7	110		5	275	0.5	69	90									
417.35	5	105		5	215	BLD	5	90									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46 D

ASSAYED BY Analabs FROM 405 TO 420m DATE 14/4/83 PAGE 5 OF 57

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422484

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
420.30	8	95		30	210	1.0	15	85								
423.30	7	100		BLD	120	0.5	19	105								
426.30	7	90		35	160	1.0	42	130								
429.30	9	90		25	125	1.0	12	85								
432.30	40	135		1150	2600	2.0	100	95								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46 D

ASSAYED BY Analabs FROM 420 TO 435 DATE 14/4/83 PAGE 6 OF 57

422485

Metres	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
435.50	15	125		510	790	1.5	58	105								
438.50	10	110		10	200	1.5	29	105								
441.50	10	110		30	200	1.5	40	120								
444.30	20	90		80	455	1.0	650	90								
447.30	20	155		5	180	1.0	84	90								

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 40D

ASSAYED BY ANALABS FROM 435 TO 450 DATE 14/4/83 PAGE 7 OF 57

422486

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG								SAMPLE NUMBER
450.50	15	135		5	90	1.0	39	75									
453.50	15	95		10	75	0.5	40	75									
456.50	9	75		5	125	1.0	21	70									
459.50	10	145		50	110	0.5	38	80									
462.50	10	50		BLD	555	1.0	37	80									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH KBE 46 D

ASSAYED BY ANALABS FROM 450 TO 465 DATE 14/4/83 PAGE 8 OF 57

422487

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	S. G								SAMPLE NUMBER
465.50	10	80		25	980	0.5	100	80									
466.50	7	75		5	115	0.5	11	85									
471.50	6	70		15	140	1.0	4	100									
474.50	5	110		BLD	140	1.0	8	135									
477.50	8	125		BLD	110	1.0	4	95									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH QBE 46 D

ASSAYED BY Analabs FROM 465 TO 480 DATE 15 / 4 / 83 PAGE 9 OF 57

422488

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Au	Ni	S. G.							SAMPLE NUMBER
480.50	3	70		BLD	115	BLD	BLD		105								
483.50	BLD	70		5	125	0.5	3		100								
486.50	3	80		5	90	0.5	1		85								
489.50	3	135		BLD	140	0.5	2		95								
492.50	4	55		BLD	140	0.5	2		100								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46D

ASSAYED BY ANALABS FROM 480 TO 495 DATE 14/4/83 PAGE 10 OF 57

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422489

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
495.50	7	65		BLD	150	0.5	3	115								
498.50	BLD	90		BLD	160	0.5	40	115								
501.50	4	65		BLD	155	0.5	23	105								
503.50	7	65		BLD	150	1.0	2	110								
506.50	7	115		5	150	1.0	15	115								
509.50																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46 D

ASSAYED BY ANALABS FROM 495 TO 510 DATE 14/4/83 PAGE 11 OF 57

510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	20	65		405	400	1.5	4000	95								
512.50	3	95		10	120	0.5	88	105								
515.50	4	75		10	215	0.5	7	110								
518.50	15	120		70	1050	0.5	540									
521.50	4	60		15	195	BLD	22									
524.50																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46D

ASSAYED BY ANALABS FROM 510 TO 525 DATE 15/4/83 PAGE 12 OF 57

422491

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	5	65		25	220	BLD	8									
527.50	BLD	100		15	180	BLD	5									
530.50	BLD	140		15	215	BLD	7									
533.50	4	95		15	200	BLD	4									
536.50	BLD	80		15	175	BLD	5									
539.50																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46D

ASSAYED BY ANALABS FROM 525 TO 540 DATE 15/4/83 PAGE 13 OF 57

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	BLD	95		BLD	150	BLD	1									
542.50	4	70		10	165	BLD	7									
545.50	9	100		75	170	0.5	63									
548.50	25	65		175	635	BLD	72									
551.50	20	80		200	705	0.5	74									
554.50																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 46 D

ASSAYED BY ANALABS FROM 540 TO 555 DATE 15/4/83 PAGE 14 OF 57

422493

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	20	100		210	685	1.0	590									
557.50	6	75		10	110	0.5	21									
560.00	5	125		BLD	85	0.5	6									
563.00	4	105		BLD	100	BLD	6									
566.00	7	110		135	360	BLD	24									
569.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46 D

ASSAYED BY ANALABS FROM 555 TO 570 DATE 15/4/83 PAGE 15 OF 57

422494

	METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
570																	
571		BLD	80		10	100	BLD	3									
572	572.00																
573																	
574		60	685		25	175	1.0	103									
575	575.00																
576		BLD	145		10	160	BLD	25									
577																	
578	578.00																
579		15	2100		25	160	3.5	90									
580																	
581	581.00																
582		BLD	135		5	75	BLD	18									
583																	
584	584.00																
585																	

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46 D

ASSAYED BY ANALABS FROM 570 TO 585 DATE 15/4/83 PAGE 16 OF 57

422495

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	BLD	85		BLD	75	BLD	6									
587.00	BLD	55		BLD	85	BLD	5									
590.00	BLD	55		5	90	BLD	3									
593.00	9	30		15	110	BLD	68									
596.00	35	15		10	110	BLD	240									
599.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46 D

ASSAYED BY Analabs FROM 585 TO 600 DATE 14/4/83 PAGE 17 OF 57

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	7	40		5	45	BLD	1000									
602.00	9	125		BLD	45	BLD	109									
605.00	5	195		15	70	BLD	44									
608.00	5	65		15	85	BLD	98									
611.00	6	90		10	70	BLD	89									
614.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46 D

ASSAYED BY Analabs FROM 600 TO 615 DATE 15/4/83 PAGE 18 OF 57

422497

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	4	100		5	45	BLD	19									
617.00	4	70		10	110	BLD	26									
620.00	4	100		10	130	BLD	19									
623.00	BLD	45		10	100	BLD	11									
626.00	BLD	80		BLD	85	BLD	2									
629.00																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY Analabs FROM 615 TO 630 DATE 15/4/83 PAGE 19 OF 57

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422498

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	BLD	65		10	50	BLD	19									
632.00	45	105		320	1800	1.0	1800									
635.00	9	60		10	160	BLD	86									
638.00	5	60		BLD	160	BLD	3									
641.00	7	65		BLD	165	BLD	6									
644.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46 D

ASSAYED BY ANALABS FROM 630 TO 645 DATE 15/4/83 PAGE 20 OF 57

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422499

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	4	70		BLD	140	0.5	8									
647.00	35	85		80	388	BLD	840									
650.00	3	60		BLD	145	BLD	46									
653.00	7	75		5	155	BLD	49									
656.00	3	45		BLD	160	BLD	8									
659.00																

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COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY Analabs FROM 645 TO 660 DATE 15/4/83 PAGE 21 OF 57

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422500

	METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
660 661		4	60		BLD	155	BLD	8									
662 663 664	662.00	BLD	80		BLD	155	BLD	18									
665 666 667	665.00	BLD	65		BLD	175	BLD	7									
668 669 670	668.00	6	85		15	185	2·5	21									
671 672 673	671.00	20	50		BLD	125	BLD	46									
674 675	674.00																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY Analabs FROM 660 TO 675 DATE 14/4/83 PAGE 22 OF 57

422501

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG		SAMPLE NUMBER
	60	70		1200	365	0·5	2100				
677.00	15	65		10	110	BLD	106				
680.00	80	515		4600*	3450	28	950			* Denotes by method 104	
683.00	20	40		15	130	0·5	230				
686.00	8	65		10	135	37	27			* Denotes by method 104	
689.00											

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY ANALABS FROM 675 TO 690 DATE 15/4/83 PAGE 23 OF 57

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422502

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	7	135		15	175	3.5	25									
692.00	BLD	75		25	105	BLD	17									
695.00	3	60		20	85	BLD	12									
698.00	15	80		70	140	1.0	240									
701.00	70	80		20	120	BLD	380									
704.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46 D

ASSAYED BY Analabs FROM 690 TO 705 DATE 15/4/83 PAGE 24 OF 57

422503

706 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	70	575		190	740	2.0	390									
707.00	65	70		30	125	BLD	160									
710.00	55	180		105	385	0.5	310									
713.00	40	65		20	115	BLD	36									
716.00 TO 719.00	13	10		15	65	x	52	135						Split Core.		Z2051
	40 5	30 10		5 10	70 60	BLD x	84 39	190		Upper Lower	fig fig	ground core split Core	from from	716. 717-718		Z2052
	90	10		10	55	BLD	66	150								Z 1501
	15	75		25	25	0.5	63	455								Z 1502
	40	640		15	120	0.5	31	155								Z 1503
	120	1150		190	1200	1.0	170	155								Z 1504

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY ANALABS FROM 705 TO 720 DATE 14/4/83 PAGE 25 OF 57

422504

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	50	955		55	160	0.5	110	195								Z1505
	40	585		15	75	BLD	15	145								Z1506
	30	155		10	86	BLD	16	186								Z1507
	60	195		30	90	0.5	200	180								Z1508
	250	1000		125	150	4.0	2.6%	145								Z1509
	40	130		15	110	BLD	250	150								Z1510
	10	60		20	65	BLD	90	145								Z1511
	BLD	60		15	65	BLD	31	80								Z1512
	BLD	55		15	65	BLD	24	75								Z1513
	6	60		10	60	BLD	19	75								Z1514
725.00	45	505		5	80	0.5	210									
728.00	40	335		5	70	0.5	32									
731.00	10	100		5	120	1.0	20									
734.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46 D

ASSAYED BY AnaLabs FROM 720 TO 735 DATE 14/4/83 PAGE 26 OF 57

422505

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	15	90		15	95	BLO	14									
737.00																
	10	70		20	85	1.0	16									
740.00																
	4	85		15	80	1.0	27									
743.00																
	25	115		10	75	0.5	37									
746.00																
	50	175		10	80	1.0	34									
749.00																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY Analabs FROM 735 TO 750 DATE 18/ 4/ 83 PAGE 27 OF 57

422506

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	40	90		10	145	1.0	46									
752.00	45	125		10	110	0.5	250									
755.00	40	415		20	105	1.0	18									
758.00	7	65		50	70	0.5	4									
761.00	15	105		20	75	0.5	6									
764.00																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY Analabs FROM 750 TO 765 DATE 15/4/83 PAGE 28 OF 57

422507

	METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
765																	
766		15	85		10	135	1.0	19									
767	767.00																
768																	
769		35	60		10	125	1.0	89									
770	770.00																
771																	
772		46	105		25	140	1.0	10									
773	773.00																
774																	
775		30	60		30	215	1.0	13									
776	776.00																
777		15	85		20	260	0.5	14									
778																	
779	779.00																
780																	

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46 D

ASSAYED BY Analabs FROM 765 TO 780 DATE 15/4/83 PAGE 29 OF 57

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
	25	95		15	160	0.5	14									
782.00	20	75		10	120	1.0	17									
785.00	35	110		10	105	BLD	39									
788.00	35	60		10	125	0.5	36									
791.00	60	75		25	105	0.5	52									
793.00	40	50		10	100	0.5	18									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46 D

ASSAYED BY ANALABS FROM 780 TO 795 DATE / / PAGE 36 OF 57

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422509

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METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
796.00	40	90		10	125	1.0	5									
799.00	20	100		20	135	BLD	6									
802.00	60	55		125	295	0.5	270									
805.00	15	110		20	125	0.5	21									
808.00	55	70		15	135	BLD	20									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46D

ASSAYED BY ANALABS FROM 795 TO 810 DATE 15/4/83 PAGE 31 OF 57

422510

810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825

METRES	Sn	Cu	W	Pb	Zn	Ag	As									SAMPLE NUMBER
811.00	50	70		15	115	1.0	11									
814.00	140	90		20	115	BLD	19									
817.00	60	45		10	125	0.5	63									
820.00	280	30		20	105	BLD	20									
823.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46 D

ASSAYED BY Analabs FROM 810 TO 825 DATE 15/4/83 PAGE 32 OF 57

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422511

	METRES	Sn	Cu	W	Pb	Zn	Ag	As	SAMPLE NUMBER
825 826		170	115		5	100	BLD	35	
827 828 829	827.00	20	95		120	775	0.5	200	
830 831 832	830.00	40	65		550	3000	2.5	950	
833 834	833.00	10	80		20	205	BLD	90	
835 836 837	835.00	90	85		125	2500	0.5	590	
838 839 840	838.00	10	80		15	230	BLD	83	

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY Analabs FROM 825 TO 840 DATE 18/4/83 PAGE 33 OF 57

422512

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
841.00	6	75		55	280	0.5	19									
844.00	25	80		55	200	BLD	42									
847.00	10	75		5	150	BLD	27									
850.00	10	85		10	165	BLD	17									
853.00	8	130		315	1350	1.0	190									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY Analabs FROM 840 TO 855 DATE 18/4/83 PAGE 34 OF 57

422513

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
856.00	20	115		2400	3950	4.5	250									
859.00	10	180		20	260	BLD	18									
862.00	4	95		BLD	155	BLD	3									
865.00	5	90		BLD	170	BLD	10									
868.00	3	115		BLD	165	BLD	3									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY ANALABS FROM 855 TO 870 DATE 18/4/83 PAGE 35 OF 57

422514

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
871.00	4	75		BLD	160	BLD	3									
874.00	4	70		BLD	165	BLD	2									
877.00	4	105		BLD	155	BLD	3									
880.00	BLD	55		BLD	160	BLD	19									
883.00	8	90		BLD	155	BLD	7									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46D

ASSAYED BY Analabs FROM 870 TO 885 DATE 18/4/83 PAGE 36 OF 57

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422515

885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
886.00	5	55		5	140	BLD	5									
889.00	6	100		5	180	BLD	16									
892.00	7	360		BLD	205	BLD	2									
895.00	8	105		5	140	0.5	11									
898.00	3	110		10	185	0.5	27									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46D

ASSAYED BY ANALABS FROM 885 TO 900 DATE 18/4/83 PAGE 37 OF 57

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422516

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
901.00	9	195		45	245	0·5	250									
904.00	5	200		10	170	0·5	52									
907.00	9	95		5	160	0·5	3									
910.00	6	205		5	200	0·5	10									
913.00	5	95		BLD	175	BLD	10									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY Analabs FROM 900 TO 915 DATE 18/4/83 PAGE 38 OF 57

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422517

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
916.00	7	140		5	170	0.5	12									
919.00	5	95		5	150	0.5	17									
922.00	20	410		40	250	1.0	20									
925.00	20	110		BLD	165	0.5	19									
928.00	15	125		5	175	BLD	15									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46D

ASSAYED BY ANALABS FROM 915 TO 930 DATE 18/4/83 PAGE 39 OF 57

422518

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
931.00	9	115		5	175	BLD	19									
934.00	65	80		1050	4300	1.5	290									
937.00	55	110		115	4350	0.5	1000									
940.00	20	95		5	230	BLD	78									
943.00	20	75		BLD	225	BLD	49									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY Analabs FROM 930 TO 945 DATE 18/4/83 PAGE 40 OF 57

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
946.00	10	60		5	170	BLD	43									
949.00	6	50		BLD	145	BLD	15									
952.00	9	85		BLD	150	BLD	15									
955.00	6	70		BLD	155	0.5	8									
958.00	9	145		BLD	190	BLD	8									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY Analabs FROM 945 TO 960 DATE 18/4/83 PAGE 41 OF 57

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422520

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
961.00	8	90		BLD	195	BLD	6									
964.00	7	80		BLD	185	BLD	7									
967.00	8	195		BLD	200	0.5	7									
970.00	9	255		5	185	0.5	12									
973.00	9	315		BLD	165	BLD	6									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46 D

ASSAYED BY Analabs FROM 960 TO 975 DATE 18/4/83 PAGE 42 OF 57

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422521

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
976.00	160	235		100	380	1.0	1000									
979.00	15	265		15	155	0.5	31									
982.00	10	195		BLD	160	0.5	26									
985.00	9	115		BLD	210	BLD	20									
988.00	5	140		25	350	0.5	20									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY Analabs FROM 975 TO 990 DATE 18/4/83 PAGE 43 OF 57

422522

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
991.00	6	110		15	230	0.5	180									
994.00	20	185		BLD	150	BLD	32									
997.00	10	200		BLD	130	0.5	19									
1000m	15	95		BLD	145	BLD	21									
1003m	6	160		BLD	145	BLD	19									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46D

ASSAYED BY Analabs FROM 990 TO 1005 DATE 18/4/83 PAGE 44 OF 57

422523

1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1006 m	6	125		5	165	BLD	6									
1009 m	5	70		BLD	140	BLD	20									
1012m	10	45		BLD	115	BLD	12									
1015m	7	125		BLD	140	BLD	16									
1018m	8	80		BLD	100	BLD	38									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY ANALABS FROM 1005 TO 1020 DATE 18/4/83 PAGE 45 OF 57

422524

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1021 m	7	105		BLD	150	0·5	17									
1024 m	7	60		BLD	130	BLD	19									
1027 m	4	90		BLD	155	BLD	2									
1030 m	6	110		BLD	125	BLD	7									
1033 m	4	115		BLD	115	BLD	8									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH 46 D

ASSAYED BY ANALABS FROM 1020 TO 1035 DATE 18/4/83 PAGE 46 OF 57

422525

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1036 m	7	110		BLD	140	BLD	3									
1039 m	6	95		BLD	155	BLD	15									
1042 m	8	310		BLD	160	BLD	3									
1045 m	BLD	360		BLD	195	BLD	1									
1048 m	BLD	245		BLD	165	BLD	89									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH 46 D

ASSAYED BY ANALABS FROM 1035 TO 1050 DATE 18/4/83 PAGE 47 OF 57

422526

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1051 m	4	305		5	145	BLD	1									
1054 m	5	95		5	100	BLD	1									
1057 m	9	135		15	135	BLD	9									
1060	8	130		25	140	BLD	21									
1063	BLD	165		10	140	BLD	37									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46D

ASSAYED BY Analabs FROM 1050 TO 1065 DATE 12/5/83 PAGE 48 OF 57

422527

Metres	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1066 m	15	255		5	190	BLD	19									
1069	15	170		5	115	BLD	57									
1072	85	205		240	460	0.5	110									
1075	5	275		15	165	BLD	28									
1078	35	325		35	130	BLD	4									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 46D

ASSAYED BY ANALABS FROM 1065 TO 1080 DATE 17/5/83 PAGE 49 OF 57

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1081	1600	180		75	205	BLD	99									
1084	50	125		10	145	BLD	31									
1087	10	105		5	120	BLD	10									
1090	8	75		BLD	105	BLD	18									
1093	20	65		10	150	BLD	33									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46 D

ASSAYED BY ANALABS FROM 1080 TO 1095 DATE 17/5/83 PAGE 50 OF 57

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1096	10	95		BLD	120	BLD	22									
1099	8	155		10	100	BLD	6									
1102	7	165		5	120	BLD	12									
1105	5	135		BLD	105	BLD	12									
1108	BLD	105		BLD	105	BLD	5									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 46D

ASSAYED BY Analabs FROM 1095 TO 1110 DATE 17/5/83 PAGE 51 OF 57

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1111.00	3	155		BLD	105	BLD	13									
1114.00	15	445		5	135	BLD	7									
1117.00	15	425		BLD	115	BLD	3									
1120.00	15	475		BLD	105	BLD	21									
1123.00	25	670		BLD	80	BLD	30									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 46 D

ASSAYED BY Analabs FROM 1110 TO 1125 DATE 17/5/83 PAGE 52 OF 57

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422531

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1126.00	10	250		BLD	110	BLD	160									
1124.00	4	265		BLD	310	BLD	35									
1132.00	6	195		BLD	110	BLD	9									
1135.00	BLD	125		5	115	BLD	13									
1138.00	15	105		BLD	95	BLD	66									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46D

ASSAYED BY Analabs FROM 1125 TO 1140 DATE 17/5/83 PAGE 53 OF 57

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422532

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1141.00	20	140		BLD	125	BLD	72									
1144.00	15	65		BLD	100	BLD	83									
1147.00	15	85		5	95	BLD	91									
1150.00	25	135		BLD	100	BLD	55									
1153.00	15	165		5	95	BLD	11									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46D

ASSAYED BY ANALABS FROM 1140 TO 1155 DATE 17/5/83 PAGE 54 OF 57

422533

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1156.00	6	140		5	105	BLD	33									
1159.00	BLD	150		5	165	BLD	13									
1162.00	8	115		5	120	BLD	2									
1165.00	6	160		5	140	0.5	2									
1168.00	8	110		BLD	120	BLD	25									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 46 D

ASSAYED BY Analabs FROM 1155 TO 1170 DATE 17/5/83 PAGE 55 OF 57

422534

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1171.00	7	145		BLD	110	BLD	9									
1174.00	9	55		BLD	105	BLD	53									
1177.00	8	135		5	120	BLD	14									
1180.00	9	80		BLD	110	BLD	28									
1183.00	25	50		40	170	BLD	27									

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46D

ASSAYED BY ANALABS FROM 1170 TO 1185 DATE 17/5/83 PAGE 56 OF 57

422535

METRES	Sn	Cu	W	Pb	Zn	Ag	As	Ni	SG							SAMPLE NUMBER
1186.00																
	4	175		BLD	100	BLD	3									
1188.30																

DDH RBE 46D 1188.30 EDH

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 46 D

ASSAYED BY ANALABS FROM 1185 TO 1188.30 DATE 17/5/83 PAGE 57 OF 57

4 2 2 5 3 6

DRILLHOLE LOG

R.B.E. 47

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COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG

SUMMARY SHEET

422537.

PAGE 1 OF 5

PROJECT East Renison AREA G.A.R. South. DRILLHOLE TYPE DDH. NQ RBE 47.

CO-ORDS E 373 152·9m N 5372 139·3m. DEC^LN 45° AZIMUTH 090° True. RL 150·8m.

DATE COMMENCED 27/3/83 DATE COMPLETED 13/4/83 DRILLED BY Longyear DRILL RIG Longyear 38

GEOLOGIST(S) D S Thynne. NQ 325 – 343·8. E.O.H 343·8m.

SURVEY DATA

INSTRUMENT Eastman Camera.

DEPTH	CORRECT DEC^LN	AZIMUTH	DEPTH	CORRECT DEC^LN	AZIMUTH
041m.	45$\frac{1}{4}$°	76$\frac{1}{2}$°m	281m.	43°	72°m
071m	46°	75°m	311m	42°	73°m
101m	46$\frac{1}{2}$°	75°m	341m	41°	80$\frac{1}{2}$°m.
131m	46°	75°m			
161m	45°	72°m			
191m	44$\frac{3}{4}$°	76$\frac{1}{2}$°m			
221m	44°	76°m			
251m	43$\frac{1}{2}$°	78°m			

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
0–9m	Triconed. - Clayey		
9 – 17.4m.	Lt Br lim stained sediments Kaolin veinlets		
17.4 – 32.5m	Leached pale gy tuffaceous psammopelites.		
	Clay and silica alteration.		
	Lim staining persists to 19.8m.		
	Reduced to NQ at 32.5m.		
32.5 – 47.5m	Leached pale gy psammites, pspel, pelites.	fresh dissem py.	less 1%
	Broken / fractured core. Breccia 37.3m	begins to appear.	
	Clay and narrow sideritic veins.		
	Fractures causing brecciation. Less 20°∠C		
47.5 – 65.6m	Blackish carbonaceous pelites. Conductive.	No. of pyrite veinlets.	
	Greenish (clay-Chl-Epid?) alt on fractures	Pyrite - veined and dissem	
	Bedding 42-50°∠C. Pyrite veinlets at	47.50 – 55.5m	2-3%
	25°∠C e shallow fr dip in sim direction.	61.50 – 65.6m.	2-3%
65.6 – 83.5m	Tuff. psammites c̄ dk gy e Br. pelites (siltstones).	Pyrite 65.6 – 77.0m	2-3%
	Narrow qtz and pyrite veinlets. Dip 23°∠C.	77.0 – 83.5m	less 2%
	Bedding 44 to 57°∠C. locally disturbed		
	Few sideritic veinlets / veins.		
83.5 – 85.3m	Quartz and pyrite veined psammites.	Pyrite 83.5 – 85.3m.	15%
	Main trend qtz e pyrite 57 – 67°∠C.	Galena - Sphalerite in	
	Qtz approx 10%, pyrite 15% of core.	quartz on margins. Grains	
	Some silicification, Chl alt of sed.	84.6 – 84.66m	minor.
85.3m – 90.6m	Tuffaceous psammites. Minor narrow pelites.		
	Bedding 25°∠C.		
90.6m – 96m	Microgabbro. (basalt, Dolerite?)		
	Vugs near upper margin (frothy top? or tensional feat)		
	Sed contact sharp, slightly wavy. 65°∠C		
96.0 – 108.72	Gabbro	Pyrite in several	
	Chlorite / actinolite alt of matrix.	metasomatic veins.	
	albitisation adj shear 96 – 96.6m.		
	Shear less 10°∠C.		

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COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

422538

PROJECT	EAST RENISON	AREA	G.A.R south.	DRILLHOLE TYPE	DDH NQ	RBE 47
CO-ORDS	E 373 160 E N 5 372 150 N	DEC^LN	45°	AZIMUTH	090° True.	RL
DATE COMMENCED	27/3/83	DATE COMPLETED	13/4/83	DRILLED BY	LONGYEAR	DRILL RIG LONGYEAR 38
GEOLOGIST(S)	D S Thynne.			NQ 32.5 – 343.8m.	E.O.H	343.8m.

SURVEY DATA

INSTRUMENT EASTMAN CAMERA.

DEPTH	CORRECT DEC^LN	AZIMUTH	DEPTH	CORRECT DEC^LN	AZIMUTH
041m	45¼°	76½°m	281m	43°	72°m
071m	46°	75° m	311m	42°	73°m
101m	46½°	75°m	341m	41°	80½°m.
131m	46°	75°m			
161m	45°	72°m			
191m	44¾°	76½°m			
221m	44	76°m			
251m	43½°	78°m			

LOG SUMMARY

[illegible]PTH	ROCK TYPE	MINERALISATION	GRADE
108.72 – 118.30	tuffaceous psammites and tuff. Mudstones.		
	(Volcanoclastic greywackes) shards and lithic clasts.		
	Bedding 30° to 54°∠C.		
	thin Carbonate and chl layers on fr.		
	Metasomatic alt begins to appear.		
118.30 – 127.54m	Volcanoclastic greywackes as above.	pyrite concentrated in	3–5%
	More disturbed beds than above.	bed 126.7 – 127.54.	
	qtz and bedding, approx 52–55°∠C.		
	actinolite – Tremolite – py alt of some beds.		
127.54 – 129.10	BRECCIA. (epiclastic layer). Lineation 35°∠C.	Pyrrhotite and pyrite.	
	Patchy carbonates. Semi pervasive Metasomatic	unevenly dissem	
	alteration. Appearance of pyrrhotite.		
12[illegible]10 – 130.85m	Lithic Greywackes. 3-4 graded units.	Sphalerite, Galena in 55°∠C	20% of vein.
	Narrow carbonate veinlets in Metasomatic	8mm wide qv. at 130.75m	
	alt layers. Alt/bedding? 40°∠C.		
130.85 – 137.15	dk gy tuff, pelites, lighter grey tuff, psammites.	pyrite wisps, discontinuous	
	25°∠C fracture offsets bedding	veins and dissem.	
	and Metasomatic altered layers.		
	Some clasts of pelite in ps & visa-versa.		
137.15 – 150.7	tuffaceous psammopelites, psammites.	Chalcopyrite, sphalerite.	minor.
	Zones of metasomatic alt to 60cm wide	in carb, po vein at 149.	
	qtz – sulphide – and Met alt. 46 to 65°∠C.		
	Sim dip, dir to bedding. Bedding 32°∠C.		
	Spongy pyrrhotite, some schorl.		
150.7 – 151.75	Metasomatised psammites, minor pelites.	pyrrhotite replacing pyrite	
	Main fractures, qtz veins, po trend 48–50°∠C	near top. also po/py veins.	

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COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

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PROJECT East Renison AREA G.A.R. South DRILLHOLE TYPE DDH NO RBE 47.

CO-ORDS E 373 160E N 5 372 150N DEC^{LN} 45° AZIMUTH 090° True RL

DATE COMMENCED 27/3/83 DATE COMPLETED 13/4/83. DRILLED BY Longyear DRILL RIG Longyear. 38

GEOLOGIST(S) D S Thyne NQ 325 – 343.8m E.O.H. 343.8m

SURVEY DATA INSTRUMENT Eastman Camera.

DEPTH	CORRECT DEC^{LN}	AZIMUTH	DEPTH	CORRECT DEC^{LN}	AZIMUTH
041m	45¼°	76½°m	281°m	43°	72°m
071m	46°	75° m.	311m	42°	73°m.
101m	46½°	75° m	341m.	41°	80½°m.
131m	46	75°m			
161m	45°	72°m			
191m	44¾°	76½°m			
221m	44°	76°m			
251m	43½°	78°m.			

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
151.75-152.45.	Axinite Rock. Large axinite blades, clasts &	Chalcopyrite with Aspy	Cp less 0.4%
	interstitial qtz and calcite. Top contact	and po. Clustered.	
	sharp 36°∠C. [Sim to horizon 426.8m RBE DI]	aggreg.	
	[texture & fabric]		
152.45 – 152.75	PYRRHOTITE, DIOPSIDE SKARN. Lower contact 24°∠C	Pyrrhotite c̄ lesser pyrite	
152.75 – 162.50	Variably alt tuffaceous psammites. – pelites.		
	Includes narrow axinite beds, veins.		
	Bedding 30°∠C, Calcite veins cut across 60°∠C		
162.5 – 163.0	METASOMATIC. PYRRHOTITE, ARSENOPYRITE, PYRITE - qtz -	Sulphides as clustered	Minor Chalcopyrite.
	chl - Phlogopite altered layer. + Carbonate	aggreg groups. Over 50%.	
163. – 175.0	Variably alt tuffaceous psammites, psammopelites.	pyrite mainly absent	
	Brownish mudstone 164.90 – 165.0.	in beds; as dissem from	
	Late fractures at 15 to 30°∠C across bedding	164.2 – 164.90	
	Bedding: 50°∠C.	165.0 – 165.50.	
175.0 – 191.10	Tuffaceous psammites, psammopelites, mudstones	pyrite. 181 – 181.25.	20% core.
	with interbedded. Cal. Psammites.	pyrite + pyrrhotite	
	Bedding 40 to 43°∠C.	178.6 – 179.05.	30% core.
	Zones with po veins, qtz-cal-tour	Minor py, arsenopyrite,	minor Cp 179.75
	veins, minor axinite, Carbonate-Act alt.	pyrrhotite, Chalcopyrite elsewhere	
191.10 – 194.4.	Psammopelites. alternating Phlogopite - Chl/seri alt.	Minor py aggreg to 191.70.	
	Bedding 31 to 40°∠C.		
194.4 – 194.7.	Thin dolomitic psammopelite bed. 33°∠C.	pyrite. Concentration of	
194.7 – 201.10	Psammopelites, pelites. Narrow chert like bands	dissem grains in some beds	
	Metasomatic alt – Act-Trem - py. +/-	Pyrrhotite – trace	
	tourmaline - po. in veins and alt beds.		
201.10 – 210.6	Brownish tuffaceous psammopelites c̄ psammites	pyrite. dissem and veined	1-3%.
	Phlogopitic and metasomatic alt..		
	py veins most 15-20°∠C. Bedding 47°∠C		
	Some qtz - siderite veins. (208.5m)		

COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

422540

PROJECT East Renison AREA C.A.R South DRILLHOLE TYPE DDH NO RBE 47

CO-ORDS E 373 160E N 5372 150N DEC^LN 45° AZIMUTH 090° True. RL

DATE COMMENCED 27/3/83 DATE COMPLETED 13/4/83 DRILLED BY Longyear DRILL RIG Longyear 38.

GEOLOGIST(S) D S Thyme NQ 32.5 – 343.8 E.O.H. 343.8

SURVEY DATA INSTRUMENT Eastman Camera.

DEPTH	CORRECT DEC^LN	AZIMUTH	DEPTH	CORRECT DEC^LN	AZIMUTH
041m	45¼°	76½°M	281m	43°m	72°m
071m	46°	75°M	311m	42°m	73°m
101m	46½	75°M	341m	41°m	80½°M.
131m	46°	75°M			
161m	45°	72°M			
191m	44¾°	76½°M			
221m	44	76°M			
251m	43½°	78°M			

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
210.6 – 218m.	Pale gr weakly calcareous tuffaceous psammites		
	Bedding 40–47°∠c. Microfracturing of beds		
218.0 235.1m	tuffaceous psammites, psammopelites, pelites.	Pyrite e pyrrhotite minor except	
	Beds range 1mm to 30cm wide. Phlogopitic	222–222.25m dissem	20–30%
	to sericite alt beds, intermittent qtz-py-schorl	222.4–222.9m vein	5–10%
	veins – actinolite-tremolite-py-(axinite) alt.	225.55–225.65m. alt zone	5–10%
	Veins (qtz dominantly) and bedding 30–50°∠c.	226.3–226.9m "	5–10%
235.1 – 237.3m	Altered psammopelites, pelites.	Sulphides (py + Aspy).	less 5%.
	alteration – mainly siderite network. 40-50%c.		
237.3-262.55m	Tuffaceous psammopelites and psammites.	Arsenopyrite – pyrite dissem	
	Metasomatised beds mainly adj fractures	aggreg in alt beds near	Aspy+py less 2%.
	veins. Narrow Carbonate (siderite) veins.	top. 237.3 – 242.8.	
	Elsewhere either phlogopite-sericite alt.	Pyrite wisps-fr fill and in	
	Some schorl. Bedding 30 – 52°∠c.	metasomatised beds.	
	Tendency for shallowing of dip c̄ depth	From 242.8 – 255.3.	3-5%.
262.55-271.9m	Pale olive gy and dk grey. graded and separate	pyrite, Arsenopyrite and	
	beds of mudstone through to psammites	pyrrhotitised pyrite confined	
	Tuffaceous. Predominance of quartz -	mainly to narrow veins.	
	siderite veins as an alteration phase.	Chalcopyrite minor in	Cp minor.
	Bedding disturbed. 15 to 60°∠c (Base 15°∠c)	3 veins between 270.64 – 270.78	
	Repeated micro disruptions of beds.		
	Most qtz-siderite veins 40-60°∠c.		
271.9 – 278.0m	alternate tuffaceous psammites with hornfelsed	Arsenopyrite 30% of vein	at 272.44.
	tuffaceous psammopelites, pelites.	Chalcopyrite 10% of vein	at 274
	qtz c̄ Aspy, sid, tour. veins 58 – 76°∠c		
278.0 – 308.0m.	Tuffaceous hornfelsed psammites → pelites.	Magnetite dissem.	
	Core magnetic. More so in psammites.	pyrite, Arsenopyrite minor	
	qtz-siderite veins narrow. at 10 – 25cm	in qtz-calcite-siderite veins.	

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PAGE 5
OF 5

COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

422541.

PROJECT East Renison AREA G.A.R. South. DRILLHOLE TYPE DDH. NO RBE 47

CO-ORDS E 373 160 E N 5 372 150 N DEC^LN 45° AZIMUTH 090° True. RL

DATE COMMENCED 27/3/83 DATE COMPLETED 13/4/83. DRILLED BY LONGYEAR DRILL RIG LONGYEAR 38

GEOLOGIST(S) D S Thynne. NQ 325 — 343.8 E.O.H 343.8m.

SURVEY DATA

INSTRUMENT Eastman Camera.

DEPTH	CORRECT DEC^LN	AZIMUTH	DEPTH	CORRECT DEC^LN	AZIMUTH
041m	45¼°	76½°m	281m	43°	72° m
071m	46	75° m	311m	42°	73° m
101m	46½	75°m	341m	41°	80½°m
131m	46	75°m			
161m	45	72°m			
191m	44¾	76½°m			
221m	44	76°m			
251m	43½	78°m.			

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
	Calcite in veins - appears again below		
	280.5m. Siderite veins become less.	Minor py in veins.	
	Bedding disturbed. From 15 to 58°∠c.	Arsenopyrite concentrated	
	Most qtz-side-$CaCO_3$ veins + tour 55-62°∠c	in qtz veins between	
	Actinolite alt zones/layers 15-33°∠c.	297.9 — 298.50m.	
	later cross cutting. Later feature.		
308 — 338m	Hornfelsed tuffaceous psammites, psammopelites	Cassiterite in narrow	minor,
	Core response to pencil magnet.	qtz veins 314.2, 318.62m	
	More so in psammite beds.	Chalcopyrite minor at	324.65m.
	Metasomatic alteration zones along		
	fractures and as veins. Intermittent.	dissem magnetite.	
	qtz-siderite-calcite & or siderite narrow vein		
	Most qtz-Carbonate veins approx 60°∠c.		
	Bedding influenced by sub parallel core		
	axis parting. Mainly between 0-17°∠c.		
	Where undisturbed. 50°∠c at 308.9m		
	31°∠c at 336.3m.		
338- 343.8.	Intercalated tuffaceous psammites, hornfelsed		
	psammopelites, pelites. No core response	minor py in some	
	to pencil magnet. From 337-338m.	narrow qtz veins.	
	Most qtz-calcite veinlets 50-65°∠C.		
	Bedding 30°∠C Relation to 60°∠C. structures.		
	E.O.H 343.8m.		

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
c	9m				Triconed.					
9	17·4			9	Lt Brown weathered sediments. Lim stained throughout. Goethite + manganese staining more common near top. Clayey throughout. Kaolinized veinlets near bottom.					
	1·6	1·5	93·7%	10						
	1·8	0·6	33·0	11 12						
	1·5	1·0	66·0%	13 14						
	1·7	0·8	47·0%	15						
	1·8	1·4	78·0%	16 17						
17·4	15·1 1·1	0·9.	82%	18	Mainly leached lt gy, pale yellowish gy tuffaceous psammopelites (silty sand stones). Disseminated small phe (or clast), darkish - possibly after mafic rocks. Some dk gy and whitish clays. Core broken intermittently. Some lim staining persists to 19·8m 10mm wide qtz-Haematite vein at 18·6m. Dips. 28°∠c. Reduced to NQ at 32·50	Leaching with subsequent silicification and clay alteration.		qv. dips 25°∠c		
	1·7	0·9.	53%	19 20						
	1·6	1·6	100	21						
	1·5	0·7.	46%	22 23						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE47

LOGGED BY D S Hynes FROM 0 TO 23m DATE 5/4/83 PAGE 1 OF 23

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DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE (INTERVAL)	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
		1·6	1·0	62%	24						
		1·6	1·3	93%	25 26						
		1·2	1·0	83%	27						
		0·8	0·8	100%	28						
		0·7	0·55	78%	29						
		1·8	1·5	83%	30						
		1·7	0·7	41%	31 32	HQ to NQ					
	32·5	0·8 15·0	0·1	12%	33	Pale gy leached hornfelsed psammopelites, pelites. Brecciated, slickensided and broken core. (Core loss substantial). Fault or shear zone. Transitional to lithology below. Breccia with pale pelitic clasts at 37·3.	Leaching to pale gy of some dk gy beds. subsequent silicification Talc/kaolin throughout lower section. Carbonate (sideritic) veins between 39·40 – 40·40.		Fractures and partings causing broken core, shearing, brecciation appear to be at angle less 20° ∠ c.	Some dissem grains. loose aggreg of pyrite less 1%.	
		0·5	0·1	20%							
		3·1	0·2	6%	34 35 36						
		1·4	0·5	38%	37 38				37·3 Breccia.		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 47

LOGGED BY O S Hynes FROM 23m TO 38m DATE 5/4/83 PAGE 2 OF 23

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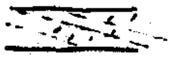
DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	1·10	0·5	78%
	1·0	0·6	60%
	2·6	0·5	19%
	2·0	0·6	30%
	2·5	0·5	20%
47·50	18·10 1·5	0·5	33%
	1·0	0·7	70%
	1·3	0·5	38%
	1·2	0·8	66%
	1·3	0·9	69%

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
39 40 41 42 43 44 45 46 47				40·1 Sideritic vein 2-3mm wide. 17°∠c.		
48 49 50 51 52 53.	Dk gy carbonaceous pelites: pyritic in part. weak bedding - some narrow, coarser grained, lt coloured beds, yellowish green coloration on fractures (clay-chl-epidote col.). Conductive.	pyrite in veins, dissem and cross cutting wisps. qtz c̄ pyrite. yellowish green film/staining on fractures. - clay/chlorite. Lesser Carbonate deposits.		47·50. Bedding 42°∠c. 47·80 " 50°∠c. 49·50. Pyrite trend approx. 25°∠c. Some wisp across. 53. Dominant trend of py. veins. 25°∠c.	dissem and veined pyrite. 2-3% between 47·50-55·5 " 61·50-65·60 minor in middle of section	



SCALE 1:100 (1cm = 1 m)

42254

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 47

LOGGED BY O S Hynne FROM 38 TO 53 DATE 5/4/83 PAGE 3 OF 23

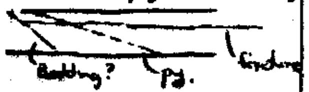
DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL
		0·4	0·2	50%	54
		0·5	0·15	30%	
		1·5	0·7	46%	55 56
		1·3	1·0	77%	57
		1·7	0·4	23%	58 59
		0·4	0·4	100%	
		1·2	0·95	79%	60
		0·7	0·3	43%	61
		1·7	1·3	76%	62 63
		1·2	0·8	66%	64
		1·2	1·0	83%	65
	65·60	17·95 1·0	0·9	90%	66
		0·9	0·7	78%	67
		1·4	1·1	78%	68

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
55				55·10 Py trend predom. 25°∠C. Wisps as above cut across trend.		
59				59·40 Bedding 50°∠C.		
60–61				Shallow angle core parting appear to have sim dip direction to py • Bedding		
66–68	Interbedded tuffaceous sandstones ē dark gy and Brownish siltstones. (pelites). Some impure chert like beds towards lower part of interval			Bedding disturbed. Bedding measureable where indicated below.		



COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH RBE 47.

LOGGED BY D S Wynne FROM 53 TO 68m DATE 5/4/83 PAGE 4 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
		1·5	1·0	66%
		1·4	1·1	78%
		1·5	1·3	87%
		1·5	1·3	87%
		1·1	0·7	64%
		0·6	0·4	67%
		0·8	0·7	87%
		1·0	0·2	20%
		1·0	0·4	40%
		0·5	0·35	70%
		1·4	0·3	21%
		0·5	0·4	80%
		1·1	0·8	72%

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL: 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83.

DESCRIPTION

see previous page.

ALTERATION

dissem aggregs of py and py in some narrow qtz wisps/ veinlets in some beds.

GRAPHIC LOG

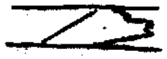
STRUCTURE

Narrow qtz and pyrite veinlets at shallow angle to Core. Approx 23°∠c sim to above but diminish through this interval. Sim dip dir to bedding.

72 bedding 57°∠c.

74 Bedding 44°∠c.

Other narrow qtz veinlets wisps across bedding



Some cuts crossing each other. Lesser siderite veins / veinlets.

MINERALISATION

py 2-3% in some beds near top, less 2% below 77.

VISUAL PERCENTAGE MINERALISATION

422546

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 47

LOGGED BY O S Syme FROM 68 TO 83 m DATE 6/4/83 PAGE 5 OF 23

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	·	0·9	0·7	77%.		as previous					
	83·5	1·8			84	qtz veined and pyritised psammites. Aggregs and bands of pyrite. Some qtz lenses, nodules in sediments. silicification, qtz concent. towards contac.	silicification & chl all of psammite adj to py & qtz. Some pyrite bands separate from qtz. Some aggreg of Arsenopyrite		Main trend of qtz and py 57-67°∠c. Some quartz reticulated network. qtz approx 10% core py approx 15%. core.	Pb galena aggreg at 84·6. Upper margin of qtz. Sn Cassiterite/Sphalerite grains at 84·66m. Lower margin of sil zone.	both miner
		0·9	0·5	55%							
		0·5	0·3	60%	85						
	85·3	5·3 0·9	0·6	66%.	86	Tuffaceous psammite with band of pelite at 87·9.					
		0·5	0·5	30%							
		0·3	0·25	83%	87						
		0·5	0·2	40%							
		0·7	0·3	42%							
		0·4	0·3	75%	88				87·9. Bedding 25°∠c.		
		0·7	0·5	62%	89						
		1·7	1·7	100%	90						
	90·6	5·4			91	greenish gy basic rock. Fine grained gabbro (microgabbro) or basalt. lt greenish frag/phc with whitish specks (either tuffaceous pe fragments or alt fsld). Smaller slightly purplish phc. greenish matrix. chl/actinolite?			Vugs near upper contact. (tensional features). Contact c̄ sed sharp, wavy. Approx 65°∠c.		
		1·9	1·8	95%	92						
		1·5	1·45	97%	93						
		2·1	1·9	90%	94 95						
	96	12·72 0·8	0·6	75%	96 97	Gabbro. fine grained. Greenish matrix (chl - actinolite). Some light gy to whitish purple phc - (after pyx or albite after Ca plag). Some sub metallic phc. Non magnetic.	qtzite adj shear 96-96·6. Chlorite/actinolite alteration of fines gr phc, matrix.		Shallow angle core fracture, shear between 96-96·9m. - slickensided graphite or dk gy surface after sulphide adjacent albitisation. Shear less 10°∠c.		
		1·6	1·5	94%.	98						

SCALE 1:100 (1cm = 1 m)

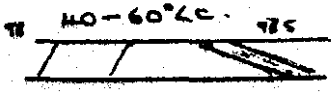
COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 47

LOGGED BY D S Hyne FROM 83 TO 98m DATE 6/4/83 PAGE 6 OF 23.

LITHOLOGY

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL
		0·9	0·9	100%	99
		0·15	0·15	100%	
		2·25	2·2	98%	100 101
		3·1	3·1	100%	102 103 104
		0·9	0·95	105%	105
		3·10	3·0	97%	106 107 108
	108·72	9·58			109
		2·5	2·6	104%	110 111
		2·6	2·5	96%	112 113.

DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
Gabbro.	chlorite all of plag. + albitisation (mainly weak except near top fracture).		97·50 qtz-siderite-pyrite vein c̄ chlorite selvedge at 32°∠C. 10mm wide. Above vein several. veinlets between 40–60°∠C.  98·75m qtz-tour-py-tremolite-actinolite. vein 20mm wide. 60°∠C. Adjacent narrower veins  other veins, fractures. inconspicuous. - less 1mm wide.		
Interbedded tuffaceous sandstones with tuffaceous siltstones, Sandstones with dk gy-blackish clast (basic). Siltstones/mudstones with whitish acicular clasts Most less 1mm long. (shards?) Mudstones chert like under gabbros. Some grading. Volcanoclastic. wackes.	thin carbonate and dk chlorite on partings. actinolite/tremolite alteration begins to appear with depth. Some of upper mudstones impure chert like.		111·10 Bedding 54°∠C. 111·40. Bedding 44°∠C.		

422548

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 47

LOGGED BY D S Wynne FROM 98 TO 113 DATE 7/4/83 PAGE 7 OF 23

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
		2·6	220	84%	114 115 116				115·90 Bedding 30°∠C.		
		1·69	1·9	112%	117 118				116·86 Bedding 33°∠C. actinolite - tremolite layer 40°∠C. 117·80 Bedding 45°∠C.		
	118·30	9·24				tuffaceous sandstones, siltstones Volcanoclastic - wackes. Beds more disturbed than above. whitish and dark clast fragments.	actinolite / Tremolite / (diopside) alteration of some beds, layers. chloritic.		Main alteration structures some conformality with bedding.	pyrite except in actinolite altered layers low.	
		2·51	2·5	100%	119 120				120·1 Bedding 52°∠C.		
		2·0	2·0	100%	121 122		121-121·10 qtz - py - chl - tourmaline zone approx 45mm wide 43°∠C.		118·4. qtz vein with pyrite - chl margins assoc with py aggreg some tourmaline. 45mm wide. 60°∠C.		
		1·6	1·6	100%	123 124		123·8 chl - act - py - (trem) - qtz layer. approx 10cm wide.		123·3. Slump, flame structure		
		0·6	0·5	83%	125						
		1·0	0·9	90%	126		125·65. actinolite - Trem. layer. 20-25mm wide		125·40 qtz vein c̄ py in ars. 8mm wide 55°∠ c. sim to bedding.		
		3·10	3·10	100%	127		127·30 chl - actinolite pyrite lenses. clustered		126·70 - 127·54 pyrite aggreg and wisps along bedding	126·70 - 127·54 pyrite	3·5%
	127·54				128	See over.					

SCALE 1:100 (1cm = 1 m)

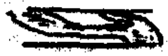
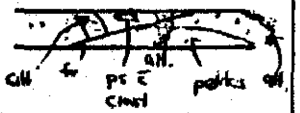
422540

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 47

LOGGED BY D S Skyrme FROM 113 TO 128m DATE 7/4/83 PAGE 8 OF 23

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
127.54	1.56			129	BRECCIA - EPICLASTIC. Framework of brecciated pelite clast (most under 6mm diameter). Some altered basaltic? clasts. In shaly matrix.	Patchy chl-act-diopside-po. clustered. Some rounded dissem aggreg py. Minor Carbonates.		Brecciation of pelite clasts. lineation in parts. Approx 35°∠C. Dk altered matrix.	Pyrrhotite ē pyrite. unevenly dissem.	
129.10	1.75 2.8	 2.65	 95%	130	tuffaceous psammites - graded. (tuffaceous wackes). 3 to 4 graded units. Small pelite and basaltic fragments. low zones near bases of larger fragments.	narrow carbonate zones veinlets in chl-silica zones. to actinolite. Eg 129.90 approx 40°∠C Bedding controlled.		Younging upwards. Some zones with brecciation. 129.7m qtz + py vein 65°∠C. 20mm wide. 130.75 qv ē Sp + lesser GL.	Sphalerite + galena in narrow qv 8mm wide. 55°∠C, across bedding: @130.75 vein → / bedding	20% vein
130.85	6.3. 2.4 1.7 3.0	 2.25 1.75 3.0	 94% 102% 100%	131 132 133 134 135 136 137	dark tuffaceous pelites, lighter grey tuffaceous sandstones, (psammites) Some clasts of psammites in pelites. Also pelite clast. Sim with sandstone beds. (disturbed).	Zones containing Carbonates - in fractures impure patches in Chl - silica - Act - Trem. layers. layers approx 30-60mm wide. Eg. 131.0 - 131.25m. irregular. Includes brecciation and fracture zone. 132 - 132.23. Same structure. 132.36 - 132.44.  134.46 - 134.55. 136.92.		131-131.25. alt zone offset by later fracturing. 132-132.23 25°∠C fracture offsets alteration and beds  132.90. qtz vein. 47°∠C. 15mm wide.	Wisps, veinlets individual veins of pyrite. - replacement. + dissem pyrite. mainly between 132 - 134.70m.	
137.15	 2.6 3.10	 2.55 3.10	 98% 100%	138 139 140 141 142 143	tuffaceous psammites, psammopelites with metasomatised beds ranging in thickness from lenses, wisps less 10cm to 60cm wide. Some tuffaceous psammites with roundish lenses of alteration otherwise unaltered	Altered beds light greenish gy. - silica - chlorite - Carbonate - actinolite - tremolite. In some spongy pyrrhotite aggregates. Most zones bedding controlled. 146.50 - 147.10 alteration less regular, lenses of po with schorl, actinolite. Also veining Silica - chlorite alteration more conformed with bedding. also silic		137.15. Bedding 32°∠C. 140.23 Calcite lined fr / vein 4mm wide 46°∠C. Sim dip direction to alteration and bedding though. 142.55. 55°∠C qtz - calcite vein. Minor pyrite. 5mm wide. Sim dip to adjac alt.		

SCALE 1:100 (1cm = 1 m)

492550

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE47

LOGGED BY D S Shyrne FROM 128 TO 143 m DATE 11/4/83. PAGE 9 OF 23.

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	3·10 1·9 3·10	3·10 1·85 3·10	100% 97% 100%	144 145 146 147 148 149 150		Beds in some places contain silica-carbonate patches, layers.		143·05-143·30. qtz-chlorite — Carbonate ± actinolite alt zone. Top and lower boundary not sharp. approx 55-65°∠. irreg cross fr at about 23°∠c. Chlorite microfractures following core axis  145·41 Metasomatic qtz-act vein. 8-10mm wide. 58°∠c. Steeper than bedding. 146·35 146·50 Metasomatic-qtz-carb veins as above. 30 and 10mm wide. Cut by shallow angle core axis fracture & Chl microfractures as above. 149·8. Sulphide vein 3mm wide 60°∠c.	146·5-146·8 Some pyrrhotite, arsenopyrite, pyrite aggregates. To lesser extent in alteration (metasomatised) beds elsewhere. 149. 3mm wide chalcopyrite sphalerite, carbonate, pyrrhotite vein.	
150·7	1·05			151	greenish metasomatised psammite. Contains pale gy silicified pelite lens. 151-151·10	mainly chloritic matrix. dispersed carbonates, pyrrhotite after pyrite.		Pelite slumped, brecciated into place. Main fr, qtz vein and pyrrhotite trend 48-50°∠c	pyrrhotite replacing pyrite in lens (near top). Also py pyrrhotite veins.	
151·75	0·70			152	pale purplish BRECCIA. AXINITE ROCK. Clasts of lutite Mottled Calcite. + quartz.	axinite (SIM TO PET RBED I 426·8m)		Top contact sharp. 36°∠c.	CHALCOPYRITE with Aspy and po. interstitial clusters	Cp less 0·4%
152·45	0·30				PYRRHOTITE DIOPSIDE SKARN.	diopside ē qtz, chl-carbonates.		LOWER CONTACT 24°∠C.	PYRRHOTITE with pyrite.	
152·75	9·75 3·10 2·5	3·15 2·5	100% 100%	153 154 155 156 157 158	Variably altered tuffaceous psammites. psammopelites, pelites. Some finer gr beds narrow bands. Some chert like. axinite beds. 153·0m 30mm wide. 153·60m approx 30mm. 153·72 – 153·85m. 154·35 – 154·45m. 154·60. Several narrow axinite veins 161·15.	Some narrow chert like beds. intercalated with chlorite-actinolite-carbonate altered beds. and less or unaltered beds. Some narrow carbonate veins + axinite vein mentioned.		154·60 Axinite veins - 2. though joined by branches trend 40°∠c. Sim to bedding. 155·60 bedding / alteration 30°∠c.		

SCALE 1:100 (1cm = 1m)

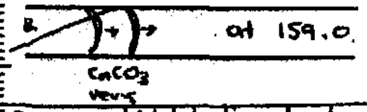
COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 47.

LOGGED BY D S Wynne FROM 143m TO 158m DATE 12/4/83 PAGE 10 OF 23

42255

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					159				159. Calcite veins 60°∠c. cut across bedding/alteration.		
		2.9	2.9	100%	160 161				159.70 Pyrrhotite - carbonate - chl (act) - tremolite vein 28°∠c. Pyrrhotite in axial area. 16°∠C.		
		2.5	2.55	102%	162						
	162.5					METASOMATIC PYRRHOTITE, ARSENOPYRITE, PYRITE	qtz-chl-Carb-Phlogopite rock		Aggregated / cluster structure.	Minor (small) Chalcopyrite.	
	163.0	12m			163	grey to lt green variably altered tuffaceous psammites, psammopelites. minor brownish mudstone beds. EG 164.90 – 165.0. Distinctive psammite beds interbedded with some graded units.	Zones of pale greenish gy upto 50cm wide but usually under 10cm wide of chert like bands - narrow beds variable chlorite – actinolite – Carbonate. Carbonate reaction mainly in patches and along fractures.				
		2.2	2.10	95%	164 165 166				165 Bedding 50°∠c and 40°∠c top and bottom of mudstone.	Inconspicuous sulphides or sulphides absent from most beds. dissem py aggregs in beds 164.2 – 164.90 165.0 – 165.50 (on either side of Mdst)	
		3.0	3.05	101%	167 168						
		3.0	2.95	98%	169 170 171				169.35 Bedding 50°∠c. 169–169.55m widest pale green altered Zone several narrow interbedded pelite (chert like) and psammite beds. Later fracturing - chlorite - Carbonate - across bedding approx 30°∠c at 169.25m		
		3.0	3.0	100%	172 173						

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH R8E 47

LOGGED BY FROM 158 TO 173m DATE 12/4/83 PAGE 11 OF 23

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	175.0	16.1		
		2.5	2.5	100%
		3.10	3.10	100%
		3.10	3.10	100%
		2.10	2.0	95%
		1.30	1.30	100%
		2.2	2.0	91%

LITHOLOGY

INTERVAL

174 175 176 177 178 179 180 181 182 183 184 185 186 187 188

DESCRIPTION

Variable metasomatised tuffaceous psammites with interbedded mudstones, psammopelites.

Some narrow beds. chert like and/or phlogopite. Interbedded primary and secondary calcareous beds.

179 – 181 cal psammites.
181.25 – 183.3. alt cal psammites.

ALTERATION

Variable chlorite - silica - carbonate - actinolite - tremolite alteration.

Several tourmaline - calcite - qtz veins.

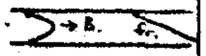
pyrrhotite veins in some beds - pyrite +/- pyrrhotite aggregation in other beds.

181 – 181.25. Silica + ?rinite + pyrite (tremolite) alteration.

GRAPHIC LOG

STRUCTURE

other late fractures approx 15°∠C. Relation to bedding as.



175.60 Bedding 43°∠C.

175 – 176.4 mainly interbedded narrow mudstones.

178.25 po veins - conformal 56°∠c. other array across bedding. approx 58°∠C

+ finer shaking po veinlet.

179.17m qtz vein 45mm wide with calcite + tourmaline.

181.25 – 183.3. Cal ps. alt 183.2 bedding 43°∠c. at bottom of Cal alteration horizon with tabular phlc / phenoblasts (pyx.)

183 – 191.10. less altered beds. few narrow horizons of act-trem. Cal alteration.

188m Bedding 40°∠c.

190.50 Bedding approx 40°∠C. Some py + alt across bedding at 56°∠C

MINERALISATION

175 – 176.4 minor dissem aggreg py.

176.4 – 178.60. narrow pyrrhotite veins - cross cutting. Minor dissem po and pyrite. Some as replacement veins.

178.60 – 179.05. Po + py aggreg, clusters 30% core.

179.05 – 181. Minor aggreg of po in altered layers. Minor Cp. Cp minor at 179.75.

181 – 181.25. py. 20%.

181.25 – 183. dissem wisps aggreg py and po.

183 — 191.10 mainly dissem py. trace arsenopyrite. Mainly as aggreg. Some py veins near top.

VISUAL PERCENTAGE MINERALISATION

422553

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH R8E 47

LOGGED BY D S Hyne FROM 173 TO 188m DATE 13/4/83 PAGE 12 OF 23.

DRILL ADVANCE				LITHOLOGY						
LOST CORE DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	3.10	3.10	100%	189 190 141						
191.10	3.3 2.2	2.1	95%	192 193 194	Psammopelites. Greyish brown beds in upper part, grades to greenish (pale) in lower part. Brownish mica. to greenish chlorite colouration.	Phlogopite? and. chlorite. Minor narrow Calcite veinlets or lining on fractures.		narrow indistinct bedding. Bedding variable. 31 to 40°∠C. 193.23 quartz vein 41°∠C. 	minor dissem aggreg of py to 191.70.	
194.40 194.70					PALE Olive gy PSAMMOPELITE BED.	FELD or DOLOMITE VEIN.		VEIN CONFORMAL. 33°∠C.		
	2.6 3.10	2.6 3.10	100% 100%	195 196 197 198 199 200 201	Variably altered psammopelites - pelites. Some narrow beds chert like. Few pale gy to whitish. clast - pelitic. Metasomatic quartz/ actinolite lenses. (or alt lithic clasts?)	generally phlogopitised psepel, pel, with chl, tremolite. Metasomatic alteration with actinolite/tremolite pyrite alteration of some beds. Metasomatic veins and quartz lenses, nodules. Nodules/lenses to 55mm wide. Narrow carbonate veins.		196.25. pyrite - actinolite - tourmaline lens. 198.38 Chert band 47°∠C. 199.65. Pyrite alt. lineation trending 15°∠C. 201.0m Sim 15°∠C trend to alt. Dip in same dir. as bedding.	Mainly dissem pyrite aggreg. - Concentrated in some beds also has distinctive pyrite vein/veinlets. trace pyrrhotite.	
201.10	9.5 3.10	3.10	100%	202 203	Mainly dk brownish gy tuffaceous psammopelites. $\bar{c}$ interbedded tuff. psammites.	predominantly phlogopitic Several bands/lenses of actinolite/tremolite/ Carbonate - minor po.		dissem and veined sulphides (pyrite). Pyrite veins narrow. Most 15 - 20°∠C. Sim 1-2mm wide dolomite/fld veins.	dissem and veined. pyrite 1-3%. Minor pyrrhotite.	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 47.

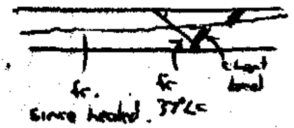
LOGGED BY e S [illegible] FROM 188m TO 203m DATE 14/4/83 PAGE 13 OF 23

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	3·10	3·10	100%
	3·10	3·10	100%
	2·2	2·2	100%
210·6	7·4		
	2·2	2·3	104%
	3·0	2·95	98%
	1·8	1·78	97%

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
204–210		208·50 qtz-dolomite lens (sideritic)		Bedding mainly hard to distinguish. 204·85–205·05. act-trem-po-Carbonate altered bed. 55mm wide. 18–20°∠C. adj less metasomatised beds. 206·20. Sim. Not as intensely alt bed. 207·60 Bedding 47°∠C. qtz-chert band. 208·50 qtz-(dolomite) lens. Slow eff (sideritic). Up to 55mm wide in core section		
211–218	Pale greenish tuffaceous psammites. Weakly calcareous in part.	Sericitic-(chl) matrix. whitish tuff (lithic) fragments. Most under 1mm. Few narrow Calcareous veinlets.		Bedding at top 40°∠C. 211m qtz vein 35°∠C. · qv 3mm wide, across bedding.  B qv. 211·90. Late shallow angle core fr. offset bedding notable because of chert like band.  fr. since healed fr 37°∠c chert band 213·95–214·25. Several pale fawny coloured beds. Dolomitic tuff so beds approx 47°∠C.	py & po mainly absent.	

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 47

LOGGED BY D S Wynne FROM 203 TO 218m DATE 15/4/83 PAGE 14 OF 23.

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
218	17.1		
	2.3	2.3	100%
	1.4	1.45	103%
	2.3	2.2	96%
	1.5	1.5	100%
	2.7	2.7	100%
	1.8	1.6	89%
	0.6	0.6	100%
	1.8	1.8	100%

LITHOLOGY

INTERVAL

219
220
221
222
223
224
225
226
227
228
229
230
231
232
233.

SCALE 1:100 (1cm = 1 m)

DESCRIPTION

Interbedded tuffaceous psammites, psammopelites and pelites. Latter mainly thin chert like beds. Beds range mainly between 1mm and 30cm wide. Some bedding planes between wider beds indistinctive. Which like chert in psammites.

ALTERATION

variable from relatively unaltered phlogopitised beds, to sericite altered beds. Intermittent qtz-py-Schorl (tour) veins - zones. and actinolite/tremolite pyrite-qtz zones. Minor axinite in lenses except below. minor siderite on fr.

222.7 tour 1-3mm wide. lens. approx 15°∠C.

223.83 axinite 30mm wide, though narrower branch.

224.65 tour + tremolite lens.

225.55-225.65m. qtz - tour - py - po - trem - chl alt.

226.3 - 226.9m qtz-act - trem - tourmaline - py - po alt

229.20 Vein. qtz-tour-siderite - arsenopyrite.

230.10 tourmaline - (schorl) - qtz - py Aspy + ? (stubby to tabular crystals).

230.6 py-tourmaline - qtz lens. c̄ act.

232.25. See next page.

GRAPHIC LOG

STRUCTURE

Bedding - mainly disturbed.

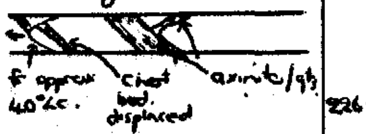
219.96 5mm wide qtz/feld. vein. 50°∠c.

221.9 Bedding 45°∠c.

222-222.25 qtz-py-po altered psammite. dissem aggreg. minor tour.

222.4-222.9 sim. More tour in vein. near top & bottom.

223.83 axinite c̄ qtz. main lens conformal. approx 47°∠c. Branch across bedding.



Coarse grained py-act-qtz-trem-tour-po layer. Shallow angle to core.

229.2. Arsenopyrite in separate vein near lower margin. also as aggregates in main vein.

230.10 tour-qtz zone approx 35°∠c. sim dip dir to bedding.

230.50 Bedding 49°∠c.

230.60 qtz-py lens 30°∠c. sim dip dir to bedding.

MINERALISATION / **VISUAL PERCENTAGE MINERALISATION**

minor py-po except as below.

222-222.25 py-po 20-30%

222.4-222.9 py 5-10%

225.55-225.65 py-po 5-10%

226.3-226.9. py-(po) 5-10%

Width 30mm. Dips 32°∠c. (Contains Cassiterite?)

230.1 py 5% of vein

230.6 py in vein

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBC 47.

LOGGED BY D S Hyne FROM 218 TO 233m DATE 16/4/83 PAGE 15 OF 23.

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
		1·0	0·9	90%	234 235		232.25. qtz-feld-tour vein + Aspy.		232.25. vein 13mm wide 50°∠c.		
	235·1	2·2. 1·6	1·85	116%	236 237	altered psammopelites, pelites.	Network of carbonate (siderite) (cream colour) – c̄ tremolite and minor qtz-actinolite-chl-py and Arsenopyrite.		alteration network 40-50% core. Intense network fine fr in centre of interval. Main fr, possibly shallow ∠c.	Sulphides (py + Aspy) less 5% overall.	
	237·3	5·5 2·8 1·2 2·3	3·0 0·95 2·4	107% 79% 104%	238 239 240 241 242	Mainly tuffaceous psammopelites. Intermittent hornfelsing. few narrow interbedded chert like pelite beds. Mainly greenish and brownish gy beds.	Variable phlogopite, chlorite, sericite alteration of beds. In some of more altered beds dissem aggreg of Arsenopyrite and pyrite. Some of dissem py aggreg clustered with schorl.		238.10. qtz-siderite vein. 3mm wide 62°∠c. 238.40 10cm wide zone with 5-6 narrow qtz py veins. trend 25°∠c. (sim dip direction to bedding?) Several cross cutting. 238.50. qtz-Arsenopyrite vein c̄ pyrite. 59°∠c. 7mm wide Sim dip direction to qtz-py veins above. 240.70 Bedding 48°∠c. 241.10 Bedding 52°∠c.	py and Arsenopyrite. generally less 2%.	
	242·8	12·5 2·8 2·7	2·95 2·7	105% 100%	243 244 245 246 247 248	Brownish and greenish grey altered psammopelites – pelites. Mainly narrow beds – interbedded sequence. Variably metasomatised.	Larger more distinctive alteration zones than above. Quartz-actinolite-tremolite-pyrite lenses. and qtz-diopside-(chl) lenses. Minor axinite at 247.15. Minor siderite (Carb). Interbedded lesser altered beds phlogopitic. (brownish gy) with indistinct veins and dissem aggreg of py.		Beds intercalated - wavy. rather than sharp, smooth. Alteration • bedding dips tend to shallower angles with depth. 245-246 Bedding approx 36°∠c trend. 251-252 main alteration bedding lineation. 15-30°∠c. - Caused by repeated faulting slumping.	wisps - fracture fill and dissem aggreg of py. overall 3-5%. Aggregs larger and more abundant in metasomatised beds. Eg 247.65 – 248.0m. 5-10% py.	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE47

LOGGED BY D S Skyrme FROM 233m TO 248m DATE 16/4/83 PAGE 16 OF 23

DRILL ADVANCE

LAST CORE DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	1·0	0·85	85%
	3·0	2·95	98%
	1·0	1·0	100%
	2·2	1·95	89%
255·3	7·25		
	1·3	1·3	100%
	3·10	3·10	100%
	3·10	3·15	101%
262·55			

LITHOLOGY

INTERVAL: 249 – 250 – 251 – 252 – 253 – 254 – 255 – 256 – 257 – 258 – 259 – 260 – 261 – 262 – 263.

DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
Med gy tuffaceous psammites and psammopelites. Narrow alteration zones	Metasomatic alt confined mainly to fracture zones, infilling veins. Chlorite-qtz and actinolite-qtz-tremolite assemblages. Minor Carbonate veins (sideritic). Py in actinolite zone confined to 256·10m. + tourmaline.		255·9–256·15. weak act-trem-ch upper part trending 20°<c. Cut across by act-py-tour layer trending 38°<c.  258·40 Bedding 40°<c. 257·6m Upper qtz vein trending 28°<c., lower truncated and act/chl veined pelite bed. bedding 30–40°<c though offset by cross fractures. qv - chl selvedge.  Pelite-cross veined. Bedding.	py mainly absent. aggregs at 256·10m.	

422558

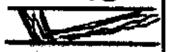
SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE47

LOGGED BY D S Skyrme FROM 248 TO 263m DATE 16/4/83 PAGE 17 OF 23

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
262.55	1.3	1.2	92%	264	Lt olive gy, pale gy mudstones and tuffaceous psammites alternating and /or graded with dk gy mudstones, tuffaceous psammites. Lower unit 270.9-271.9. grades from pale gy mudstone top to dk gy tuff. sandstone bottom.	predominantly quartz - siderite veins. Pyrite and arsenopyrite in lower section. associated c̄ veins Siderite veins, fr fill later than qtz qtz-actinolite met all restricted to 269.9 – 263. Core firmer, veins more distinctive margins below py-Arsenopyrite layer at 269.35.		Bedding range from 60 to 15°∠c. disturbed. Some multiple fracturing and dislocation. qtz-siderite veins appear to predom dip in same direction. most between 40 – 60°∠c. 262.95 actinolite - qtz 25 and 60°∠c  qtz-siderite veins 8-12% core. 267.8m. 40mm wide qv, at 60°∠c. With py. Cut by later siderite veins. 1st appearance of py this int. 267.8-268.40. Several shallow angle core narrow veins. 269.35 py-Aspy 15mm wide layer at 35°∠c. at base of 20mm wide qtz vein. at base, bedding 15°∠c.	py below 267.8m. mainly confined to 2 veins. 267.8m 269.35m. layer with Arsenopyrite. Aspy - pyrrhotitised py and minor Chalcopyrite in 3 veins between. 270.64 – 270.78	
	1.2	1.0	83%	265						
	1.1	1.0	91%	266						
	1.8	1.65	92%	267 268						
	2.6	2.6	100%	269 270 271						
271.9	6.1			272	Alternating tuffaceous psammites with hornfelsed psammopelites. few narrow pelite beds.	Beginning of Hornfelsing. Slight metasomatic. actinolite - tremolite alteration. Confined to narrow fracture zones. Few siderite veinlets along fr. Some qtz - sulphide - tourmaline + minor siderite veins. distinctive margins. (See structure)		272.44 25mm wide, 58°∠c qtz vein with arsenopyrite siderite c̄ tourmaline. 273.65 17mm wide, 76°∠c. qtz vein with tourmaline. Cut by later siderite veinlets 274.0. 6mm wide, 66°∠c qtz vein with pyrrhotite and chalcopyrite. 275.20 6mm wide 65°∠c qtz-tour. 276.60 - narrow beds. bedding 25°∠c. offset slightly by narrow siderite veinlet - film on fr. Gradational to below.	272.44 arsenopyrite aggreg 30% of vein. 274.0m. Chalcopyrite in qtz vein. aggreg 10%.	
	3.0	3.05	101%	273 274						
	3.0	3.05	101%	275 276						
	3.0	3.05	101%	277 278						

SCALE 1:100 (1cm = 1 m)

42259

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 47.

LOGGED BY R S Hyne FROM 263 TO 278 DATE 16/4/83 PAGE 18 OF 23.

502

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	278	15		
		3·0	3·0	100%
		3·0	3·0	100%
		1·4	1·4	100%
		3·1	3·1	100%
		3·0	2·4	80%

LITHOLOGY

INTERVAL: 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293

SCALE 1:100 (1cm = 1 m)

DESCRIPTION

tuffaceous psammites (sandstones) interbedded with hornfelsed. psammopelites (sandy siltstones, siltstones)

Some beds less 25mm wide. though more massive tuff sandstones predominate.
core magnetic response.

ALTERATION

Mainly narrow siderite veins along fractures. Fewer calcite-siderite and quartz veins.

Widest is qtz-siderite vein at 280·54. 8mm wide.

Several narrow shallow angle core actinolite-siderite alt fracture zones. later than. most of higher ∠ c fractures + veins.

GRAPHIC LOG

STRUCTURE

Mainly siderite veins .. at 10–25cm intervals near top. Become less numerous with depth. Calcite in some veins below. 280·50.
280·65–280·90 fracture 10°∠c cut higher angle to core siderite

281·60. Bedding 52°∠c.

284·70–285·0. Bedding disturbed.

287·0 qtz-tourmaline-siderite vein. 9mm wide 62°∠c.

287·90 qtz-tourmaline vein 4mm wide 56°∠c.

289·90 Bedding and qtz veining 55°∠c.

292·9 Bedding and qtz veining at 57°∠c

MINERALISATION

Magnetic response to pen magnet. more so in psammites. dissem magnetite.

minor to trace py in calcite-siderite and quartz-carbonate veins.

VISUAL PERCENTAGE MINERALISATION

422560

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 47

LOGGED BY D S Shyne FROM 278m TO 293m DATE 16/4/83. PAGE 19 OF 23

503

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
293	15		
	3·10	3·10	100%
	3·10	3·10	100%
	3·10	3·20	103%
	3·0	3·10	103%
	3·2	3·2	100%

LITHOLOGY

INTERVAL: 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308

SCALE 1:100 (1cm = 1 m)

DESCRIPTION

tuffaceous psammites (sandstones) and hornfelsed psammopelites, pelites. (sandy siltstones, siltstones). Whitish and dk gy tuff fragments in psammites.

Core responses to pencil magnet. More so in tuffaceous sandstones.

ALTERATION

Mainly narrow qtz and/or calcite veins cutting core at 10-30cm intervals.

Few narrower siderite veins, fr fill.

Shallower angle core alt fracture zones. actinolite - calcite - sulphide. Few. a late feature.

GRAPHIC LOG

STRUCTURE

293.3. Bedding 56°∠c. sim dip for 3mm wide qtz tourmaline - pyrite vein at 293.14, siderite vein on fracture at 293.24.

293.65 Bedding, qtz at 61°∠c. Narrow qv.

295.0 qtz vein 10mm wide 60°∠c cut by later sideritic veinlets

296.80 actinolite - calcite. fracture fill. 25°∠c. cuts bedding and qtz - pyrite vein. later at 58°∠c.

297.7. qtz with marginal later siderite. 60°∠c.

298 - qtz - arsenopyrite vein 6mm wide, 52°∠c.

298-299. 5 sim veins

300.25. act - qtz - calcite - siderite lined fracture. 5mm wide, 33°∠c.

301.0 actinolite - calcite - qtz with clusters of chalcopyrite - sphalerite. Fracture trends 10-12°∠c dips opposite direction to 60°∠c structures.

MINERALISATION

dissem magnetite. esp in tuff sa.

arsenopyrite in qtz veins, esp in three main veins between 297.9 - 298.50

VISUAL PERCENTAGE MINERALISATION

422561

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 47.

LOGGED BY D S Skyrme. FROM 293 TO 308m DATE 17/4/83 PAGE 20 OF 23

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
308.0	15m.		
	3.10	3.20	103%
	0.9	0.8	89%
	2.6	2.6	100%
	2.4	2.4	100%
	3.10	3.10	100%
	1.6	1.7	106%

SCALE 1:100 (1cm = 1m)

LITHOLOGY

INTERVAL

309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323.

DESCRIPTION

Hornfelsed tuffaceous psammites and psammopelites. Hornfelsing stronger developed in finer gr beds. Core response to pencil magnet. More so in coarser grained beds.

ALTERATION

Metasomatic alt more intense than above. Actinolite – tremolite – qtz alt along fine hair like fracture zones. Also on some later partings.

Intermittent narrow siderite veins/veinlets as fr fill, qtz, qtz-calcite-py, calcite veins. Most less than 5mm wide.

Several wider zones quartz-carbonate-pyrite-actinolite-tremolite alteration. (see structure).

Chlorite on some shallower angle to core fractures.

321.55 to 321.70m qtz-calcite-chl-act-tremolite zone with minor Chalcopyrite. at angle greater than 50°∠C.

GRAPHIC LOG

STRUCTURE

Bedding disturbed. Tends that shallow angle core movement has influenced planular nature of bedding.

308.9 Bedding approx 50°∠c actinolite alt layer with chert like selvedges 45°∠c 10mm wide.

310 – 310.30 act – carb – qtz zones c̄ pelite fragments trend 25°∠C. Oppos dip to 60°∠c qtz = side veins

311 – 311.20. Shallow angle c act alt along fr. Influenced bedding.

312.4 – 312.52. qtz-carb-act-trem zone. Cut across by 60°∠c siderite veinlets

313 fr and parallel lith. (sio,ss) boundary 12°∠c. Chl on fracture.

314 – 318 fracture/partings and bedding or lith boundary follow or sub parallel to core axis.

318.70 lith boundary controlled by fr 15°∠c. Sim dip dir to qtz-Carb vein at 52°∠c.

MINERALISATION

dissem magnetite. in coarser grained beds.

minor pyrite in qtz veins or narrow alt. (act) layers.

Small grains of possible Cassiterite in veins at.
314.20.
318.62.
Veins less 3mm wide.

minor Chalcopyrite 321.65.

VISUAL PERCENTAGE MINERALISATION

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE47.

LOGGED BY D S FROM 308m TO 323m DATE 17/4/83. PAGE 21 OF 23

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
323.	15m.		
	2.3	2.3	100%
	3.0	3.05	101%
	3.0	3.0	100%
	2.6	2.5	97%
	1.7	1.8	10 6%
	3.10	3.10	100%

LITHOLOGY

INTERVAL

324 325 326 327 328 329 330 331 332 333 334 335 336 337 338

SCALE 1:100 (1cm = 1 m)

DESCRIPTION

Intercalated tuffaceous psammites and hornfelsed psammopelites.
Core response from pencil magnet. Strongest in coarser grained beds.

ALTERATION

Mainly siderite as narrow veins infilling fractures. Concentration of sideritic veins 326.80 – 329.75m. 50mm to 100mm spacings.

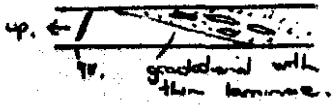
qtz veins – fewer after. 330.20m. wider to 40mm.

GRAPHIC LOG

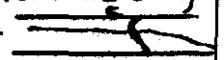
STRUCTURE

Bedding at shallow angle core. disturbed.

323.8 – 324.6. Bedding. 10–17°∠c. at 324.5. brecciation along bedding (clast of dk flo pel in tuff sa)



326.55 – 327.50m. parting tends to follow core axis. Contains siderite film. cuts across qtz (carb + sulphide) veins trending 50–60°∠c.



327.57. 4mm wide, 60°∠c. qtz-py-Aspy-tour-carb. vein

327.65 3-4mm wide siderite vein on fr – 23°∠c. Relation to above vs.

330.15 qtz-calcite – py – act-chl vein. 40mm wide 50–60°∠c.

336.30 bedding 31°∠c. possible most reliable. orientation for awhile

MINERALISATION

Magnetite – dissem.

minor f gr dissem py in some beds. Larger aggregs confined to vein at 330.15

VISUAL PERCENTAGE MINERALISATION

422563

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 47

LOGGED BY S Hyams FROM 323 TO 338m DATE 17/4/83 PAGE 22 OF 23

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
338·0	5·8m									
	2·9	3·0	103%	339 340 341	Intercalated tuffaceous psammites. (sandstones) with hornfelsed. psammopelites, pelites. No response from pencil magnet from 337-338 onwards.	Mainly narrow calcite veins - lining on fr. Siderite much less. than above. few actinolite - tremolite - pyrite. layers along fracture		Most quartz and calcite veins though not abundant at 50-65°∠C. Bedding 30°∠C at 337.20m and at 338. Relation to 60°∠C structures 	minor py in some qtz veins.	
	2·3	2·2	96%	342 343		minor qtz ± chl - actinolite lenses, veins.		342·0 qtz-act-trem - py layes. 35°∠C.		
343·8				E·O·H 343·8m.						

SCALE 1:100 (1cm = 1 m)

42564

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 47

LOGGED BY FROM 338m TO E·O·H 343·8m DATE 17/4/83 PAGE 23 OF 23

507

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
													Tricored ↑			
9.00													Grand Core ↓			
	160	115	215	1.0	52	6										
12.40																
	130	165	555	0.5	56	4										

422565

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY Analabs FROM 0 TO 15 DATE 10/7/83 PAGE 1 OF 23

METRES	Cu	Pb	Zn	Ag	As		SAMPLE NUMBER
15.60	105	65	295	0.5	43	8	
18.50	115	10	335	0.5	250	50	
21.80	150	25	165	0.5	7	6	
24.90	85	BLD	150	0.5	5	BLD	
27.50	155	BLD	110	BLD	7	4	

422566

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY ANALABS FROM 15m TO 30m DATE 10/7/83 PAGE 2 OF 23

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
30.80																
	155	BLD	110	BLD	4	3										
33.80																
	115	BLD	165	BLD	1	BLD										
38.80																
	150	10	130	BLD	2	5										
43.00																

30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

42567

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY Analabs FROM 30m TO 46m DATE 11/7/83 PAGE 3 OF 43

45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
	90	BLD	180	0·5	1	4										
47·50	130	15	130	0·5	8	7										
50·00	105	35	130	0·5	9	10										
53·80	120	10	130	0·5	10	6										
57·50	105	5	130	0·5	12	15										422568

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY Analabs FROM 45 TO 60 DATE 11/7/83 PAGE 4 OF 23

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
60.80	100	5	125	0.5	17	BLD										
64.40	130	10	145	BLD	11	4										
66.60	125	BLD	175	BLD	29	BLD										
70.40	70	BLD	125	0.5	39	5										422569
73.30	85	5	120	0.5	20	10										

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY ANALABS FROM 60 TO 75 DATE 11/7/83 PAGE 5 OF 43

METRES	Cu	Pb	Zn	Ag	As	Sn	Ni									SAMPLE NUMBER
76.50	110	BLD	150	BLD	23	15										
79.30 TO 83.70 79.3 to 81.0	120 15	100 x	240 105	1.0 x	90 82	35 x	160	← Split Core Results.						Split c ↓	79.3 to 81.0	Z2092
81.0	30	65	170	1.0	55	45										Z1515
82.0	85	20	450	1.0	58	45										Z 1516
83.50	1100	1050	275	5.5	5500	150										Z 1517
84.50	1100	1900	645	38	7000	2350										Z 1518
85.30	10	20	150	1.0	63	90										Z1519
86.50 from 83.70m.	1100 50	940 x	585 135	27.0 x	8700 610	2250 15.	160	← Split Core Results.						↑ Split Core	86.5 to 87.8.	Z2093.
87.80	320	10	170	1.0	55	40										

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 42

ASSAYED BY Analabs FROM 75m TO 90m DATE 11/7/83 PAGE 6 OF 23

513

422571

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
90.60	305	5	140	1.0	20	20										
94.00	205	BLD	155	BLD	13	15										
96.90	575	10	190	BLD	53	70										
99.55	135	BLD	135	BLD	90	85										
103 m	235	BLD	130	0.5	42	65										

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY ANALABS FROM 90 TO 105 m. DATE 15/7/83 PAGE 7 OF 23

422572

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
106m	150	BLD	120	BLD	60	60										
109m	65	BLD	150	BLD	61	30										
112m	40	BLD	140	BLD	22	BLD										
115m	50	BLD	135	BLD	100	65										
118m	140	BLD	140	BLD	800	60										

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY Analabs FROM 105m TO 120m DATE 15/7/83 PAGE 8 OF 23

422573

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
121 m	235	BLD	130	BLD	82	45										
124 m	215	610	540	2.0	53	85										
127 m	275	25	130	BLD	61	150										
130 m	135	35	175	BLD	110	100										
133 m	185	60	125	1.0	140	45										

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY Analabs FROM 120m TO 135m DATE 15/7/83 PAGE 9 OF 23

METRES	Cu	Pb	Zn	Ag	As	Sn	SAMPLE NUMBER
136 m	75	BLD	115	BLD	100	130	
139 m	30	40	195	0.5	100	150	
142 m	15	5	135	0.5	100	120	
145.0	100	BLD	135	BLD	100	220	
148.0	245	BLD	140	0.5	53	170	

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY ANALABS FROM 135m TO 150m DATE 15/7/83 PAGE 10 OF 23

517

422575

METRES	Cu	Pb	Zn	Ag	As	Sn	Ni				SAMPLE NUMBER
150.00	370	20	155	2.0	150	210					Z 1520
151.00	1800	5	495	3.0	1200	630					Z 1521
151.7	895	5	175	0.5	29	380					Z 1522
152.75	195	5	205	0.5	90	1650					Z 1523
154.00	75 40	BLD x	185 20	0.5 0.5	77 447	540 489	110	← Ground Core Result. ← Split Core Result.		154 to 155	Z2095
153.00 TO 156.00	35	x	130	x	68	206	100	← Split Core Results		155 to 156.	Z2096
156.00	120	15	175	BLD	100	350			Ground C ↓ ↑ Ground C		
159.00 TO 162.00	95	5	90	0.5	30	81	125	← Split Core.		159 to 160	Z2097
	120 110	10 15	165 110	BLD 0.5	220 73	1100 134	135	← Ground C, ← Split Core		160 to 161.	Z2098
161.00	70	BLD	165	0.5	65	490					Z1524
162.50	1750	10	165	2.0	5.1%	560					Z 1525
163.00	135	10	75	1.0	170	80					Z 1526
164.00	135	5	50	BLD	28	30					Z 1527
165.00											

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY ANALABS FROM 150 TO 165 DATE 15/11/83 PAGE 11 OF 23

422576

165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180

METRES	Cu	Pb	Zn	Ag	As	Sn	Ni									SAMPLE NUMBER
165.00	245	15	85	1.0	120	100										Z1528
166.00	125 110	5 x	105 70	BLD 0·5	260 47	85 39	 140	← Ground Core Results. ← Split Core Results								Z2099
165.00 TO 168.00	20	5	85	0·5	76	62	135	← Split Core Result								Z2100
	15	BLD	115	BLD	65	70										
171.00	15	BLD	125	BLD	280	120										
174.00	155	10	115	BLD	60	110										
177.00	965	5	150	0·5	1100	640										
180.00																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY Analabs FROM 165 TO 180 DATE 18/7/83 PAGE 12 OF 23

422577

Metres	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
180.00	430	5	225	0.5	140	900										
183.00	490	5	175	BLD	580	300										
186.00	135	BLD	155	BLD	140	180										
189.00	335	BLD	130	BLD	100	95										
192.00	85	BLD	125	0.5	180	150										
195.00																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY Analabs FROM 180 TO 195 DATE 18/7/83 PAGE 13 OF 23

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
195.00	170	BLD	175	BLD	190	250										
198.00	400	5	170	BLD	110	500										
201.00	195	BLD	135	BLD	44	110										
204.00	220	5	290	BLD	82	110										
207.00	180	10	160	BLD	34	150										
210.00																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY ANALABS FROM 195 TO 210 m DATE 18/7/83 PAGE 14 OF 23

521

422579

METRES	Cu	Pb	Zn	Ag	As	Sn.	Ni		SAMPLE NUMBER
210.0	45	BLD	135	BLD	39	130			
213.60	65	BLD	155	BLD	50	120			
216.00	35	BLD	200	BLD	38	320			
219.00	105	BLD	160	BLD	28	120		Ground Core ↑	
222	730	30	185	0.5	32	319	170	Split Core ↓	21601
223	440	30	175	1.0	87	282	150		21602
224	195	10	170	x	52	299	115	Split Core ↑	21603.
225.									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47.

ASSAYED BY ANALABS Pty Ltd FROM 210 TO 225 DATE 17/7/83 & 2.9.83 PAGE 15 OF 23

422580

Metres	Cu	Pb	Zn	Ag	As	Sn	Ni									SAMPLE NUMBER
225	30	10	125	0·5	44	188	125							Split Core ↓		21604
226	245	10	160	0·5	41	301	145									21605
227	125	x	95	0·5	29	172	140									21606
228	35	x	130	0·5	30	1150	140									21607
229	95	10	115	x	1100	8410	170									21608
230	215	x	115	x	91	147	200									21609
231	240	5	115	x	38	194	175									21610
232	60	15	150	x	390	1660	110									21611
233	60	5	105	0·5	93	139	160									21612
234	30	x	165	0·5	31	216	100									21613
235	90	x	145	0·5	3000	254	95									21614
236	155	15	160	0·5	4900	359	85									21615
237	120	5	145	1·5	170	697	125							↑		21616
238	170	5	165	x	4300	324	170							Split Core		21617
239	60	10	105	x	280	206	110							Split Core		21618
240																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RGE 47

ASSAYED BY ANALABS Pty Ltd. FROM 225 TO 240 DATE 2/9/83 PAGE 16 OF 23

422581

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
240.00	85	BLD	140	BLD	750	150				Ground Core ↓						
243.00	270	BLD	145	BLD	49	170										
246.00	615	BLD	130	BLD	20	210										
249.00	475	5	110	BLD	22	70										
252.00	620	5	150	BLD	11	70				↑ Ground Core						
255.00																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY ANALABS FROM 240 TO 255 DATE 17/7/83 PAGE 17 OF 23

422582

metres	Cu	Pb	Zn	Ag	As	Sn	Ni									SAMPLE NUMBER
255	65	x	130	x	22	40										
258	70	x	145	x	28	25										
261	35	x	145	x	37	50								↑ Ground	Core	
264	15	5	135	x	103	19	195							Spld	Core ↓	21619
265	15	x	155	0.5	37	55	150									21620
266	25	5	190	x	100	61	135									21621
267	120	x	140	x	97	68	195									21622
268	50	60	1400	1.0	2100	187	170									21623
269	445	1300*	0.87%*	13*	5100	4940	250		*	By method 104.				Spld	↑ Core	21624
270																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47.

ASSAYED BY ANALABS Pty Ltd FROM 255 TO 270 DATE 17/7/83 - 2/9/83 PAGE 18 OF 23

422583

metres.	Cu	Pb	Zn	Ag	As	Sn	Ni									SAMPLE NUMBER
270	200	315	785	2·0	98	314	175							Spld Core ↑		21625
271	45	90	515	x	32	41	170							↕		21626
272	60	30	215	x	1·10%	38	175							↓ Spld Core		21627.
273	160	x	150	x	78	35								Ground Core ↓		
276	40	x	155	x	13	20										
279	90	x	180	x	14	35										
282	70	x	170	x	4	40								↑ Ground Core		
285.0																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE47

ASSAYED BY ANALABS Pty Ltd FROM 270m TO 285m DATE 17/7/83 + 2/9/83 PAGE 19 OF 23

526

422584

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
285.00	75	BLD	145	BLD	5	390										
288.00	100	BLD	160	BLD	3	190										
291.00	80	5	160	BLD	4	440										
294.00	110	15	230	BLD	42	260										
297.00	105	10	165	BLD	1500	410										
300.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY Analabs FROM 285 TO 300 DATE 17/7/83 PAGE 20 OF 23

422585

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
300.00	115	45	220	BLD	20	340										
303.00	85	5	180	BLD	6	260										
306.00	115	5	170	BLD	4	320										
309.00	110	BLD	155	BLD	3	70										
312.00	135	5	190	BLD	4	250										
315.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY ANALABS FROM 300 TO 315 DATE 17/7/83 PAGE 21 OF 23

422586

metres	Cu	Pb	Zn	Ag	As	Sn	Ni									SAMPLE NUMBER
315	70	5	175	x	5	50								Ground	Core	
318	50	15	170	0·5	3	236	140							Split ↓	Core	21628
319	65	x	175	x	1	111	135									21629
320	70	5	165	x	32	13	190									21630
321	195	10	205	x	7	623	185									21631
322	185	5	275	x	100	730	185									21632
323	165	10	205	x	100	90	180									21633
324	125	x	200	x	380	402	145									21634
325	60	x	185	x	380	99	150									21635
326	30	x	195	x	15	124	140									21636
327	100	10	200	x	19	967	150									21637
328	95	x	155	0·5	1	33	125									21638
329	70	5	145	x	1	25	135							Split	Core	21639.
330																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE47

ASSAYED BY ANALABS Pty Ltd. FROM 315 TO 330m DATE 17/7/83 e 2/9/83 PAGE 22 OF 23

422587

330 331 332 333 334 335 336 337 338 339 340 341 342 343 343.8

METRES	Cu	Pb	Zn	Ag	As	Sn	Ni									SAMPLE NUMBER
330	205	10	150	x	8	156	170							Splt Core ↓		21640
331	65	10	150	x	1	68	140									21641
332	20	15	160	x	x	151	165							Splt Core ↑		21642
333	45	10	175	x	1	470								Ground Core ↓		
336	45	5	175	x	5	770										
339	115	10	210	x	1	70										
342	35	5	210	x	x	160								Ground Core ↑		
343.8.	E.OH	343.8m.														

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH R8E47

ASSAYED BY ANALABS Pty Ltd. FROM 330m TO 343.8m. DATE 17/7/83 & 2/9/83 PAGE 23 OF 23

422588

METRES	Cu	Pb	Zn	Ag	As	Sn	SAMPLE NUMBER
76·50	110	BLD	150	BLD	23	15	
79·30 TO 83.70	120	100	240	1.0	90	35	
81.0	30	65	170	1·0	55	45	Z 1515
82.0	85	20	450	1·0	58	45	Z 1516
83·50	1100	1050	275	5·5	5500	150	Z 1517
84·50	1100	1900	645	38	7000	2350	Z 1518
85·30	10	20	150	1.0	63	90	Z1519
86·50 83.70 TO	1100	940	585	27.0	8700	2250	
87·80	320	10	170	1·0	55	40	

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 42

ASSAYED BY Analabs FROM 75 m TO 90 m DATE 11/7/83 PAGE 6A OF 23

531

422589

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
150.00	370	20	155	2.0	150	210										Z 1520
151.00	1800	5	495	3.0	1200	630										Z 1521
151.7	895	5	175	0.5	29	380										Z 1522
152.75	195	5	205	0.5	90	1650										Z 1523
154.00	75	BLD	185	0.5	77	540										
153.86 TO 156.00	120	15	175	BLD	100	350										
159.00 TO 162.00	120	10	165	BLD	220	1100										
161.00	70	BLD	165	0.5	65	490										Z1524
162.50	1760	10	165	2.0	5.1%	560										Z 1525
163.00	135	10	75	1.0	170	80										Z 1526
164.00	135	5	50	BLD	28	30										Z1527
165.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY ANALABS FROM 150 TO 165 DATE 15/11/83 PAGE 11A OF 23

532

422590

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
165.00	245	15	85	1.0	120	100										Z 1528
166.40 165.00 TO	125	5	105	BLD	260	85										
168.00	15	BLD	115	BLD	65	70										
171.00	15	BLD	125	BLD	280	120										
174.00	155	10	115	BLD	60	110										
177.00	965	5	150	0.5	1100	640										
180.00																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY Analabs FROM 165 TO 180 DATE 18/7/83 PAGE 12 A OF 23

533

422591

METRES	Cu	Pb	Zn	Ag	As	Sn	SAMPLE NUMBER
210.00	45	BLD	135	BLD	39	130	
213.00	65	BLD	155	BLD	50	120	
216.00	35	BLD	200	BLD	38	320	
219.00	105	BLD	160	BLD	28	120	
222.00	430	5	185	BLD	78	350	
225.00							

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY ANALABS FROM 210 TO 225 DATE 17/7/83 PAGE 15 A OF 23

METRES	Cu	Pb	Zn	Ag	As	Sn	SAMPLE NUMBER
225.00	275	5	150	BLD	92	270	
228.00	100	5	155	BLD	340	6200	
231.00	180	BLD	165	BLD	770	500	
234.00	55	BLD	170	BLD	2200	290	
237.00	75	5	170	BLD	2100	390	
240.00							

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY Analabs FROM 225 TO 240 DATE 17/7/83 PAGE 16A OF 23

535

422593

METRES	Cu	Pb	Zn	Ag	As	Sn									SAMPLE NUMBER
255.00	65	BLD	130	BLD	22	40									
258.00	70	BLD	145	BLD	28	25									
261.00	35	BLD	145	BLD	37	50									
264.00	25	BLD	160	BLD	35	65									
267.00	145	170	590	3.0	3500	2200									
270.00															

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY ANALABS FROM 255 TO 270 DATE 17/7/83 PAGE 18 A OF 23

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
270.00	50	155	290	1.5	4200	110										
273.00	160	BLD	150	BLD	78	35										
276.00	40	BLD	155	BLD	13	20										
279.00	90	BLD	180	BLD	14	35										
282.00	70	BLD	170	BLD	4	40										
285.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY Analabs FROM 270 TO 285 m DATE 17/7/83 PAGE 19A OF 23

537

422595

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
315.00	70	5	175	BLD	5	50										
318.00	120	BLD	175	BLD	2	180										
321.00	200	10	205	0·5	290	240										
324.00	55	BLD	195	BLD	23	480										
327.00	95	BLD	175	BLD	3	180										
330.00																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY ANALABS FROM 315 TO 330 DATE 17/7/83 PAGE 22 A OF 23

422596

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
330.00	210	5	170	BLD	3	130										
333.00	45	10	175	BLD	1	470										
336.00	45	5	175	BLD	5	770										
339.00	115	10	210	BLD	1	70										
342.00	35	5	210	BLD	BLD	160										
343.8	EOH															

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY ANALABS FROM 330 TO 343.8 DATE 17/7/83 PAGE 23A OF 23

422597

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
210.00	45	BLD	135	BLD	39	130										
213.00	65	BLD	155	BLD	50	120										
216.00	35	BLD	200	BLD	38	320										
219.00	105	BLD	160	BLD	28	120										
222.00	450	5	185	BLD	78	350										
225.00																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY ANALABS FROM 210 TO 225 DATE 17/7/83 PAGE 15 A OF 23

METRES	Cu	Pb	Zn	Ag	As	Sn	SAMPLE NUMBER
225.00	275	5	150	BLD	92	270	
228.00	100	5	155	BLD	340	6200	
231.00	180	BLD	165	BLD	770	500	
234.00	55	BLD	170	BLD	2200	290	
237.00	75	5	170	BLD	2100	390	
240.00							

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY Analabs FROM 225 TO 240 DATE 17/7/83 PAGE 16 A OF 23

041

422599

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
255.00	65	BLD	130	BLD	22	40										
258.00	70	BLD	145	BLD	28	25										
261.00	35	BLD	145	BLD	37	50										
264.00	25	BLD	160	BLD	35	65										
267.00	145	170	590	3.0	3500	2200										
270.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY ANALABS FROM 255 TO 270 DATE 17/7/83 PAGE 18 A OF 23

422600

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
270.00	50	155	290	1.5	4200	110										
273.00	160	BLD	150	BLD	78	35										
276.00	40	BLD	155	BLD	13	20										
279.00	90	BLD	180	BLD	14	35										
282.00	70	BLD	170	BLD	4	40										
285.00																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY ANALABS FROM 270 TO 285 m DATE 17/7/83 PAGE 19A OF 23

422601

METRES	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
315.00	70	5	175	BLD	5	50										
318.00	120	BLD	175	BLD	2	180										
321.00	200	10	205	0.5	290	240										
324.00	55	BLD	195	BLD	23	480										
327.00	95	BLD	175	BLD	3	180										
330.00																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 47

ASSAYED BY ANALABS FROM 315 TO 330 DATE 17/7/83 PAGE 22 A OF 23

041

422602

METRES	Cu	Pb	Zn	Ag	As	Sn	SAMPLE NUMBER
330.00	210	5	170	BLD	3	130	
333.00	45	10	175	BLD	1	470	
336.00	45	5	175	BLD	5	770	
339.00	115	10	210	BLD	1	70	
342.00	35	5	210	BLD	BLD	160	
343.8	EOH						

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 47

ASSAYED BY ANALABS FROM 330 TO 343.8 DATE 17/7/83 PAGE 23A OF 23

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422603

DRILLHOLE LOG

R.B.E. 48

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COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

422604

PROJECT EAST RENISON AREA G.A.R. GRID. DRILLHOLE TYPE: NQ Hole RBE 48

CO-ORDS E 372959.6 N 5372801.6 DEC^LN 50° AZIMUTH 033°m RL 127m.

DATE COMMENCED 8/8/83 DATE COMPLETED 18/8/83 DRILLED BY LONGYEAR DRILL RIG LONGYEAR 38

GEOLOGIST(S) D S NQ 4 – 96m BQ 96 – 143m

SURVEY DATA

INSTRUMENT EASTMAN CAMERA

DEPTH	CORRECT DEC^LN	AZIMUTH	DEPTH	CORRECT DEC^LN	AZIMUTH
No survey surface to 96m due to casing.					
(Should have been done before reducing to BQ)				Note. DRILL COORDINATES CALCULATED	
	HQ. 4m left in hole.			from position relative to RBE7	
0m	50°	33°M.		IE RBE48 collar 7.8m from	
100m	47°	37°M		RBE7 collar at 16° M.	
112m	46°	35.5°M		Approx same level (slightly	
142m	45.25°	36.5°M.		on lower side.)	

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
0 – 4m	Triconed.		
to 4.3	Broken white quartz vein.		
4.3 – 8	sericite - mica banded phyllites – schist. Bedding less 10°∠c. Limonitic on partings.		
8 – 13.8	TALCOSE LIMONITIC ALTERED GABBRO. TALCOSE less below 11.1m. Ropy.		
13.8 – 28.0	Greenish grey, greyish Meta tuffaceous sandstones, lower section banded – with phyllites. Micaceous scheen in finer grained beds, Limonite, manganese staining confined to quartz veining (as below) and partings.		some dissem fresh py throughout.
	18.5–21.0 Multiple quartz + (Boxwork after sulphides). Some clays after Carbonates. 40°∠c and 30°∠c set. 40° → ← 30°		
	Veins also at 13.65m on margin Vuggy 150mm wide.		
	15.10m qtz c̄ aspy. 26°∠c 8mm wide.		
	22.1–22.3 qtz rubble.		
	22.8 – 23.4 Tensional gashes.		
	Elsewhere blebs of quartz - segregations. Bedding 18°∠c 15.5m		
		44°∠c 23.2m (Regular)	
28 – 46m	TALC-CARBONATE ALTERED (PYROXENITE?) Ropy – talcose, limonitic (intensive)		
	Top contact 15°∠c. Foliation 30°∠c (though wavy from 0 - 63°∠c)		
	Magnetite in 50mm wide zone at 45.5m.		
46 – 54.55m.	TALCOSE, SILICIFIED, CHLORITISED, mildly Serpentinized (PYROXENITE) ULTRAMAFIC		
	46–48.15 Silicified - whitish. BANDS OF MAGNETITE. 45-50°∠c. BASE OF OXIDATION 48.15m		
	48.15–53m Dark Green. Stringy talcose/qtz veination. 42 to 48°∠c.		
	Magnetite embedded in host and in veins. Minor fine gr pyrrhotite.		
	53 – 54.55 Pale Green. Non Magnetic. Talc/chl. EMBEDDED GRAINS Sn? (cassiterite) or W. chromite		
54.55 – 84.45m	TUFFACEOUS SANDSTONES, SILTSTONES. Between 59.3 – 71.10 Cal psammites, Cal pelites.		
↓	Partly chloritic. Some Epidote, phlogopite in Calcareous beds. Narrow Calcite		
continued next	veination mainly less 5%. [POSSIBLY A cycle unit. fines downwards [Younging eastward] ends 82.55		
page.	Bedding - Top contact 30°∠c or either parting at 60°∠c.		
	B at 54°∠c 56.7m 43°∠c 59.7m, 32 to 38°∠c at 64m, 48 to 58°∠c 64 – 71.1m.		
	B at 25°∠c 74.4m, 45°∠c 76m, 65°∠c 77.2m.		
	56.8–59.3 Quartz veination. (Network) From 56.8 → qtz 5 to 20% Veins grouped into		
		32°∠c set + 60-80°∠c set	
	65.5 – 67.1 Tensional cavities, irregular qtz.	] Vein at 69.58 50°∠c 6mmW.	] Embedded Cassiterite along centre
	68.2 – 69.7 irregular Veining 69 – 69.7 3 to 4 veins	tensional in middle (cavity)	] of vein

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COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

422605.

PROJECT EAST RENISON AREA GAR. GRID DRILLHOLE TYPE Diamond NO RBE 48

CO-ORDS E 372959.6 N 5372801.6 DEC^LN 50° AZIMUTH 33°m RL 127m.

DATE COMMENCED 6/8/83 DATE COMPLETED 8/8/83 DRILLED BY LONGYEAR DRILL RIG LONGYEAR 38

GEOLOGIST(S)

SURVEY DATA			INSTRUMENT		
DEPTH	CORRECT DEC^LN	AZIMUTH	DEPTH	CORRECT DEC^LN	AZIMUTH
0	50°	33°m			
100m	47°	37°m			
112m	46°	35.5°m			
142m	45.25°	36.5°m			

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
	72.35–72.72 75mm wide Py, qtz, carbonate V	Py concent towards margins	
	75.23. 50mm wide 48°∠c vein as above.		
	77.8–78.1 100mm wide 28°∠c qtz-siderite V	pyrrhotitised py on margin	
	78.1–79.1 60mm wide less 15°∠c. Minor fine gr py.		
	81.1–81.7 fracture Zone less 10°∠c Parallel	60 to 70mm w siderite, py, in lenses, veins.	
	83. qtz rubble.		
	83.3–83.9 15mm Massive qtz top zone to →	Semi pervasive silicification, brecciation. 33°∠c.	
84.45–90.9m =	(6.45m) Multiple qtz, siderite+qtz Veining. WITH PYRITE, PYRRHOTITE. lesser Aspy, sp and gal.		
	84.45–85.30 Mainly qtz. Upper & L contact 25°∠c		
	85.3–86 Impregnated ss. - Impreg of pyrite. Some qtz, sid veining.		
	86.0–87.1 Sid-po-py-Sp Vein. Top 30°∠c, Lower 18°∠c. Contains Sphalerite layer.		
	87.1–89.0 Ss. partly replaced by py., Py veins, minor qtz v. Some Tourmaline.		
		Central fracture zone less 10°∠c.	
	89.0–91.0 Siderite, qtz - po v. Semi massive	18°∠c.	
90.9–91.65m	Partial SILICIFICATION. Pyrite Veinations, Replacement. Network qtz. Pyrite at 20-25°∠c.		
	[above 3 phases apparent. Early qtz, then sid + sulphide. then later qtz etc.]		
91.65–98.85m	Greyish Cal PELITES. Minor ss that don't react to HCL. B = 45–49°∠c.]		minor vein dissem p
	93.2–93.5 Silicified. Possibly contains minor Cassiterite]		Sn minor
98.85–108.6.	MULTIPLE QUARTZ VEINING. in predom silicified Cal pelites. Partly carbonaceous.		
	98.85–99.9 pervasive sil + qtz V network. Py and Po 5% Top contact 20°∠c.		
	99.9–102.4 Cal pelites B 32 to 50°∠c. Pyrite c̄ minor po to 3%		
	102.4–105.1 Sil + qtz veining. Some calcite, sid.	103.08 Sid v. 33°∠c 8mm W. c̄ Gal, Sp	
		104.4 - narrow qtz parting c̄ Sn grains	
		104.85–104.90 minor Asp in qtz. c̄ Cassiterite	
	105.1–108 ss, sa with qtz & Calcite veining	107.85 Qtz V 30°∠c Narrow. c̄ " "	
		106.18–107.1 fr & qV. 13°∠c c̄ py, po, Aspy.	
	108–108.6 Stockwork qtz. Minor Sid, py, Aspy 17 to 20°∠c.		
108.6–112.55	Dk gy carbonaceous ss. Clastic Calpsammites/pelites at base 112.05–112.50 Bedding 46°∠c.		
	Mild Metasomatism. Some diopside	QUARTZ V network. c̄ Sphalerite at 110.7m.	
		see page	3.

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OF 3

COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

422606

PROJECT EAST RENISON AREA G.A.R GRID DRILLHOLE TYPE Diamond NQ RBE 48

CO-ORDS E 372 959.6 N 5372 801.6 DECLN 50° AZIMUTH 033°m RL 127m

DATE COMMENCED 8/8/83 DATE COMPLETED 18/8/83 DRILLED BY LONGYEAR DRILL RIG Longyear 38

GEOLOGIST(S) D S [illegible]

SURVEY DATA			INSTRUMENT		
DEPTH	CORRECT DECLN	AZIMUTH	DEPTH	CORRECT DECLN	AZIMUTH
0	50°	33°m			
100 m	47°	37°m			
112 m	46°	35.5°m			
142 m	45.25°	36.5°m			

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
118.55 - 122.1	Thinly bedded siltstones, sandstones. Beds intermittently calcareous (Calps, Calpelites)		
	115.3 - 117.8 Silicified with qtz-calcite v network. Pyrite conformal aggreg mainly.		
	Phlogopite - Calcite - sil - py associated with veining as alteration.		
	Bedding at 114.3 58°∠C, 120.6m 48°∠C.		
[illegible].1 - 126.6	Interbedded Carbonaceous St and lighter greenish gy tuff. Sa. SPHALERITE VEINS/VEINLETS.		
	and as replacement aggreg. Associated Calcite.	Concentrated 122.4 - 122.75	5% Sp.
		Elsewhere	2% Sp.
	Bedding 52 to 60°∠C.		
126.6 - 143m	Light greenish grey tuffaceous sandstones predom. Minor siltstones.		
	Calcareous in part, and Micro calcareous veining, fracturing.		
		Calcite/sphalerite vein 134.10 - 134.25m.	
		Minor py veining in Carbonaceous	
		beds to 135.2m. Minor po.	
			py/po 2% to 135.2
	Beds become less disturbed, veined towards E.O.H.		
	Bedding 52°∠C at 129.6, 131.3m., 62°∠C at 131.9m.		
	48°∠C at 137.4, 140.5m.		

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	4					0–4m Triconed					
	5	1m	0.82	82%		To 4.3 Broken white quartz vein. 4.3 to 8					
	8	3m	2.65			greenish gy sericite-mica banded phyllites, schist.	Limonite on bedding plane or schistose parting.		Bedding, lineation wavy less than 10°∠c.		
	11	3m	1.95			8 to 13.8. Talcose, limonitic altered GABBRO. or other ultramafic intrusive. Minor sediments included in lower section. Quartz on lower margin.	Semi pervasive Talc and limonite. Becomes less below 11.1m.		pitted and foliated appearance. foliation 10 to 30°∠c. Ropy.		
	14	3m	1.85						Vein contact below approximately 40°∠c. 13.65. qtz V, Vuggy limonitic boxwork. To 150mm wide.		
						See next page.					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 48

LOGGED BY D S Thynne FROM 0 TO 15m DATE 10/8/83 PAGE 1 OF 10

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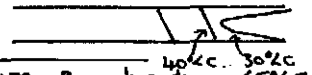
DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	17m.	3·0	3·0	100%
	18·7m	1·7	0·9	
	20·0m	1·3	0·86	
	20·8m	0·8	0·3	
	22·1m	1·3	1·0	
	23·8	1·7	1·7	100%
	24·9	1·1	0·85.	
	26·0	1·1	1·1	100%
	29·0	3·0	1·9	
		3·0	1·3	

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
16 17 18	13·8– 18·5. Pale to medium greenish grey Meta tuffaceous sandstone. Minor interbedded finer grained beds. more limonitic and disturbed towards vein at bottom.	Limonite, wad on fractures. micaceous sheen (mica + sericite) especially in finer grained beds. Minor v fine gr dissem fresh pyrite.		15·10. qtz V with Arsenopyrite aggregates. 26°∠C 8mm wide. Bedding, foliation semi parallel to vein 18°∠c. 15·8 – 16·5 irregular narrow qtz network, sweat quartz blebs. quartz 10–15% 17·5. Slump? folded.		
19 20	18·5 – 21·0 multiple quartz + (sulphide) veining. Some brownish clay alteration possibly after carbonates.	Limonite, manganese staining – Semi pervasive. Cavities / boxwork after aggregates of Sulphide. (Arsenopyrite ?).		Two sets of fractures can be measured. 		?
21 22 23 24 25 26 27	21·0 – 28·0 Greyish interbedded, intercalated meta sandstones, siltstones. banded. (schist, phyllites).	partly chloritic, micaceous. Incipient to semi pervasive limonite and wad on partings, fractures. Some sweat and vein quartz. Minor very fine grained dissem py.		21·30 B ∝ lineation 65°∠C. 21·25 – 21·6. Several broken quartz veins. Limonite/cavities after aggregated sulphides. Clay patches possibly after carbonates. widest to 20cm wide 45 to 50°∠C trend. 21·7 – 22·1 B and fracture less 5°∠C. 22·1 – 22·3 Quartz Rubble. 23·2 Bedding/lineation regular 44°∠C. 22·8 – 23·4 Tensional limonitic gashes, conformal banded quartz, qtz-siderite narrow veins. 23·4 – 25·85. Fractured, limonitic, manganese staining semi pervasive. FRACTURES, Lineation at shallow angle C. RAMIFICATION OF NARROW QUARTZ + (siderite?) veins 25·85 – 26·75. Firmer, less weathered. fracturing 29 to 45°∠C. Quartz veining irregular, narrow 5–15%. 26·75 sudden break (fracture 45°∠C) weathered – limonitic, manganiferous, (epidote, chloritic) fracturing, lineation less 20°∠C.		?
28 29 30				Contact 15°∠C.		

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 48

LOGGED BY O S Hynne FROM 15m TO 30m DATE 10/ 8 / 83 PAGE 2 OF 10

422608

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	32	3.0	2.4	
	35	1.9	1.9	100%
	36.9	1.1	0.7	
	38.0	3.0	2.7	
	41.0	3.0	1.0	33.3%
	44	3.0	2.2	

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL

28 – 46m.

DESCRIPTION

Talc – carbonate altered ultra-mafic (pyroxenite?). Intensely limonite and towards top manganiferous staining on foliation, parting planes.

Non magnetic. to 45.5m. Whitish or light grey colouration where not stained by lim or wad.

ALTERATION

manganese colouration to 38m. then solely limonite on partings etc. Intense qtz-talc-carbonate alteration throughout.

GRAPHIC LOG

STRUCTURE

Ropy foliated to fragmented texture.

foliation where regular 30°∠c.

may fluctuate, wavy and contort from (0°) to 63°∠c.

overall massive appearance

MINERALISATION

VISUAL PERCENTAGE MINERALISATION

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH RBE 48

LOGGED BY O S Shyne FROM 30 TO 45m DATE 10/8/83 PAGE 3 OF 10

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	47	3·0	2·1	
	50	3·0	2·85	
	53	3·0	3·0	100%
	56	3·0	2·86	
	59			

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
		Magnetite Concentration.		45·50 approx. 50mm wide zone. Semi pervasive magnetite.		
46 47 48	46 to 48·15 whitish to pale greenish silicified altered Ultramafic to 46·8. Weathered as above to 48·15m from 46·8.	Bands of magnetite concentrated 46·10 - 46·35. and more diffused masses in weathered section below 46·8		silicified - Talcose. BASE OF OXIDATION SHARP at 48·15. Magnetite bands. 45 to 50°∠C.		
49 50 51 52	48·15 to 53. dark green Talcose and partial chloritisation, serpentinization of Ultramafic. (pyroxenite)	Stringy talcose/quartz veination. Semi pervasive chloritisation Magnetic. Magnetite as segregated masses embedded in host and as small grains, aggregates along some veins.		Stringy veination mainly 42 to 48°∠C. Tends to shallow to approx 30°∠c towards bottom. 50·65 to 51·25m. shallow angle core veination cuts main foliation. 	Minor fine grained dissem pyrrhotite.	
53 54	53 to 54·55. Pale to pastel green.	Talc - chlorite Talc veins - stringers. of buff colour throughout.		3 quartz veins 5 to 10mm wide. 32°∠C. Talcose veins stringers 16 to 32°∠C.	Embedded grains. dk grey ± brownish hue. Scratches to brownish colour Sn or W.	
55 56 57 58 59	54·55 to 59·3. greyish tuffaceous sandstones. irregularly quartz veined.	Chloritic in tensional fracture/vein structure 58 – 58·30. partial chlorite throughout.		Contact 32°∠c.? also another plane about 60°∠c. quartz network veination between 56·8 – 59·3. 56·7m B @ 54°∠c. quartz network - both 32°∠c and 60 to 80°∠c trend. qv 5 to 20% from 56·8	Minor fine grained arsenopyrite 58 – 58·30 One or two cassiterite grains in same zone. 58·5 + minor grains of galena.	
60				59·7 B @ 43°∠c		

SCALE 1:100 (1cm = 1 m)

422610

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 48

LOGGED BY S FROM 45m TO 60m DATE 13/8/83 PAGE 4 OF 10

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
		3·0	2·69	
	62	3·0	3·0	100%
	65	3·0	2·9	
	68	3·0	2·82	
	71	3·0	2·9.	
	74			

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
59·3 to 71·10m.	greyish green thinly bedded Metasandstones, siltstones. (Greenschist) Calcareous. (Calcpsammites, calc pelites).	partly calcareous throughout. Metamorphism and chlorite content decreases downwards. Some bands with phlogopite coloration towards bottom. chlorite semi pervasive on bedding plane partings Etc. minor Epidote. Beds calcareous. Microfracturing and veination calcitic.		To 64 B 32 to 38°∠c. 64 to 71·1 B 48 to 58°∠c. Bedding not so visible and sandstones more massive between 68·2 – 69·7 quartz vening minor. 65·50 – 67·10 quartz veining irregular. tensional cavities in veins and country rock at 65·90m and 66·9m. Both zones to approx 20cm wide. 68·2 – 69·7. irregular vening to 68·6 with tensional cavities. 69 – 69·7 3 to 4 veins to 12mm wide 45 to 60°∠c. across bedding. Vein at 69·58 at 50°∠c. Narrow (to 6mm wide) tensional where vein parts in middle embedded cassiterite grains. aggregs to 3mm wide.		Sn in narrow vein.
71·1 to 77·8m.	pale grey and dark grey interbedded siltstones. Non calcareous.	Some dissem aggreg of py associated with narrow calcite (ankerite) veination. vening less 5% overall.		some calcite, quartz, (ankerite) vening as below. 72·35 – 72·72m. 75mm wide pyrite, qtz, calcite (ankerite) vening. Fracture related. Fr at 15°∠c. pyrite concentrated towards margins. 73. B @ 45°∠c. 74·4 B @ 25°∠c. 75·23. 50mm wide qtz, chl vein. py and carb on margins. 48°∠c.	Main veins dip in same direction as bedding.	

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE48

LOGGED BY D S Hynne FROM 60 TO 75m DATE 13/8/83 PAGE 5 OF 10

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	77	3·0	3·0	100%
	79·5	2·5	2·5	100%
	81·7	2·2	2·0	
	83·0	1·3	1·2	
	86·0	3·0	2·8	
	89·0	3·0	3·0	100%

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL | DESCRIPTION | ALTERATION | GRAPHIC LOG | STRUCTURE | MINERALISATION | VISUAL PERCENTAGE MINERALISATION

STRUCTURE

76 B @ 45°∠C.

77·2 B @ 65°∠C.

77·8 – 78·1. 100mm wide qtz-siderite vein. pyrrhotitized py on upper margin. Veining 28°∠C. Fr related.

78·8 – 79·1 50 to 60mm W. qtz veining. Minor fine grained py. less 15°∠C.

79·5 – 80·3. siderite associated with shallow ∠ C fracture. less 10°∠c. Broken core. fine gr pyrite.

81·10 – 81·7. fracture zone. less 10°∠C. Zone approx 60 to 70mm wide. Parallel siderite, minor pyrite wisps, lenses, veination.

83·0 Quartz vein rubble.

83·30 – 83·90. Upper 15mm wide zone semi massive quartz grades down into silicified, and brecciated quartz chlorite and sericite zone. Approx 33°∠c.

78·8 – 84·45.

DESCRIPTION

Dark grey and lighter greenish grey tuffaceous sandstones, siltstones. (mainly psammopelite, texturally) Non calcareous as above.

ALTERATION

Intermittent quartz veins, fractured. Fracture and quartz vein zones with siderite.

at 83·30 possibly top. (lower in drillhole). of cyclic unit. sediments below coarser grained again.

84·45 – 90·9 (= 6·45m)

Multiple quartz, siderite + quartz, veining with pyrite, pyrrhotite and lesser Arsenopyrite, sphalerite, and galena.

(quartz veining and silicification appears to be earlier than siderite, pyrrhotite).

84·45 – 85·30 pervasive quartz veining and silicification. Minor carbonate and pyrite. Upper and Lower contacts 25°∠C.

85·30 – 86·0 semi pervasive impregnation & replacement of siltstones by pyrite and lesser siderite, quartz. and pyrrhotite veining.

86·0 – 87·10 Massive pale siderite, pyrrhotite, pyrite, sphalerite and quartz vein, veination. Top contact 30°, Lower 18°∠C.
Sphalerite in narrow, shallow angle core layer to 86·30m.
From 86 – 87·10 po, py, sp near top 50%. at bottom 10%

87·10 – 89·0m. finely bedded siltstones, partial replacement by pyrite and narrow crosscutting py veins, contains narrow quartz veins with minor Tourmaline, small aggreg of arsenopyrite. at 88·13 minor Sphalerite. Vein 87·70 – 88·10 part of ff system at less 10°∠C. Central qv 15mm wide. adjacent impregnated siderite, pyrrhotite.

89·0 – 90·9 Siderite, qtz, po vein with silicified and qtz margins. Veining semi massive. Approx 18°∠C.

422612

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 48

LOGGED BY D S Wynne FROM 75 TO 90m DATE 13/8/83 PAGE 6 OF 10

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	92	3·0	2·92	
	95	3·0	3·0	100%
	96	1·0	1·0	100%
		REDUCED TO	BQ	
	97·8	1·8	1·6	
	100·9	3·1	3·1	100%
	103	2·1	2·1	100%
	104	1m	0·92	92%

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
91	90.9-91.65. silicified. Pyrite veination and replacement 91·25–91·40m. Network of narrow quartz and siderite veins throughout.			Pyrite replacement at 20 to 25°∠C. quartz (silicification and veins) as early phase, then siderite, then it appears to be a later quartz veining.		
92–98	91·65-98·85 greyish calc pelites. minor interbedded siltstones that don't react to HCL. Zones of silicification 93·2 – 93·50.	Irregular narrow qtz, calcite veination. Zones of partial silicification, minor narrow zones with pyrite. Some pyrrhotite as microveination below 97m.		93·2–93·5 Silicification. ← Zone possibly contains small grains Sn 93·5–93·65. pyrite aggregates with bedding (partial replacement) 93·8 B @ 47°∠C. 95·8 B @ 45°∠C. (approx) 98·65 B @ 49°∠C.	Cassiterite as above. pyrite and pyrrhotite. sulphides less 2% except 93·5–93·65. py 10%. Below 97 po 2-3%.	
99	98·85–99·9. Pervasive silicification c̄ quartz V network	Small aggreg of po c̄ py throughout silicification		Top contact sharp 20°∠C. Similar dip direction to B.	py, po 5% small aggregates. dissem.	
100–102	99·9 – 102·4. Grey and dk gy Cal pelites. Later carbonaceous - contains wisps, lenses. (ball e pellites)	Calcite veination. Minor dissem py and small wisps narrow py veins		100·45 B @ 32°∠C. 101·1 B @ 50°∠C. Calcite veination. Mainly conformal. also as wisps etc. and veins across bedding	Mainly Pyrite. minor po. less 3%	
103–105	102·4 – 105·1 quartz veining with silicification and minor distinct narrow siderite veining. (main one mentioned), narrow inconspicuous calcite.	Sn, dissem fine grained py and minor pyrrhotite. in veination, silicification. Calcite microveination.		103·08. Sid vein at 33°∠C. 8mm wide. Contains aggreg Gal, Sp. Main partings and contacts 25°∠C. to 30°∠C	Visible Cassiterite on partings at 104·40m 16°∠C. 104·85– 104·90m. Later with some aspy. Sn as irregular embedded narrow layers.	

422913

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 48

LOGGED BY O S Hyne FROM 90 TO 105m DATE 16/8/83 PAGE 7 OF 10

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	107.	3·0	3·0	100%
	109·6	2·6	2·6	100%.
	110·0	0·4	0·2	50%
	110·7	0·7	0·5	
	113	2·3	2·3	100%.
	116	3·0	3·0	100%
	119	3·0	3·0	100%

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
106 107	105·1 – 108. quartz and calcite veined grey siltstones, greenish gy sandstones.	pyrite associated with veining. Minor aggreg & individual dissem py. Minor po, Aspy.		105·3 B @ 25°∠c. 105·4 – 105·55. qtz-siderite venation 23°∠c. 106·18 – 107·10 fr, brecc and qtz veining 13°∠C. with py, minor Aspy. pyrrhotite concentrated near top. 107·85. Qtz vein, Narrow at 30°∠c. Contains grains Cassiterite.		
108	108 – 108·6 Stockwork quartz, minor siderite.	aggreg of py, minor Aspy Former assoc mainly ₢ Siderite		Approx 17 to 20°∠c.		
109 110 111 112	108·6 – 112·55. Dk gy carbonaceous siltstones. Appears to be mainly non calcareous. except clastic Calpsammite/pelite at base 112·05 – 112·50.	Streaks, narrow veins of pyrite. also some beds with diopside alteration (mild metasomatism).		109·16 ↕ 110·8 quartz vein network. Brecciated fragments of siltstone. Shallow ∠ c. 112·05. Paler colour, fragmental, calcareous. Top contact 46°∠c. (Calc ps/limestone).	py as veins. lesser po (to 5%) Some sphalerite with pale Carbonate (ankerite) at 110·7m.	
113 114 115 116 117 118 119 120	112·55 – 122·10 Thinly bedded dark gy siltstones, gy siltstones and tuffaceous sandstone. with pale green sa, ss unit between 113·35 – 114·40 (1·05m). Beds intermittently calcareous (cal ps, cal pelites).	phlogopite – calcite silicification – pyrite where qtz veined. narrow blebs, calcite veins throughout.		← 112·8 B @ 60°∠c. 114·3 B @ 58°∠c. 115·3 pyrite - mainly conformal aggregs. - along bedding Concentrated on top of veining. ↕ 117·8 qtz veined - calcareous. Vein network with associated silicification qtz - calcite venation as such 10%. Calcite, quartz veining overall 5%.		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 48

LOGGED BY D S Hynne FROM 105 TO 120m DATE 18/8/83 PAGE 8 OF 10

17922

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
		3·0	2·97	
	122	3·0	2·93	
	125	3·0	3·0	100%
	128	3·0	3·0	100%
	131	3·0	3·0	100%
	134			

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
				120·2–120·5 B slumped. follows core axis irregularly. 120·6 B @ 48°∠C 122·0 B 40 and 50°∠C.		
	122·1 – 126·6 Interbedded dk gy carbonaceous siltstones and lighter greenish gy tuffaceous sandstones. Beds massive to less 10mm wide	Replacement ? calcite – Sphalerite narrow veins – veinlets irregular. - Intermittent.		124·0 B 53°∠C. Sphalerite concentrated in predom black/dk gy siltstone unit 122·4 – 122·75. 124·6 B 52°∠C. 126·0 B 52°∠C. 126·3 B 60°∠C	Sphalerite veins/veinlets and as replacement aggregates. Associated with calcite. V(lets) narrow, intermittent. 122·4 – 122·75	5% Sp Elsewhere Sp less 2%
	126·6 – 134 predominantly pale green calcareous (partly calcareous) tuffaceous sandstone. Minor interbedded narrow pale green and grey siltstones.	Calcareous. microveination Minor macro quartz veining. Veins intermittent two widest 8mm and 20mm wide.		129·6 B 52°∠C. 131·3 B 52°∠C. 131·9 B 62°∠C 133·9 B 54°∠C.		

SCALE 1:100 (1cm = 1 m)

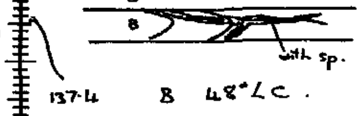
4226 5

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 48

LOGGED BY O S Hyme FROM 120m TO 135m DATE 18/8/83 PAGE 9 OF 10

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	137	3·0	2·5		136 137	134–143. Light greenish grey tuffaceous sandstones with minor siltstones and dk gy siltstones. Calcareous in part.	Microfracturing, veining – Calcareous. few macro quartz and calcite veins.		134·3 B 43°∠C. Calcite/sphalerite vein across bedding at 134·10–134·25m. 	Calcite and aggregates of Sphalerite in vein at 134·10 – 134·25m.	Sp minor
	140	3·0	3·0	100	138 139 140		pyrite veining to 135·2.		137·4 B 48°∠C.	pyrite veining in dk gy siltstones to 135·2. Minor po	py/po 2% to 135·2
	43	3·0	2·93		141 142 143. E·O·H.		matrix to sandstone Calcareous.		140·5 B @ 48°∠C.		

E·O·H 143m.

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH R.B.E 48

LOGGED BY D S Hynne FROM 135m TO 143m DATE 18/8/83. PAGE 10 OF 10 all split core

METRES	Cu	Pb	Zn	Ag	Ni	As	Sn									SAMPLE NUMBER
4.0	125	65	255	0.5	85	260	60									Z1701
5.0	205	70	120	1.0	75	200	30									Z1702
6.0	100	100	120	1.0	100	105	26									Z1703
7.0	150	95	200	1.0	140	100	72									Z1704
8.0	1400	270	140	0.5	165	5000	21									Z1705
11.0	890	250	215	1.0	215	3200	8380									Z1706
14.0	270	80	190	1.0	105	360	85									Z1707
15.0																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 48

ASSAYED BY Analabs FROM 0 TO 15m DATE 9/9/83 PAGE 1 OF 10

560

422618

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn									SAMPLE NUMBER
15.0	160	30	140	1.0	100	240	28									Z1708
16.0	125	15	145	0.5	110	120	148									Z1709
17.0	1250	120	305	1.5	215	2300	694									Z1710
18.70	935	625	210	3.0	310	3000	4.83%*		*Analysed by Method 404, Detection 0.1.							Z1711
21.0	700	70	420	1.5	310	1200	104									Z1712
22.0	385	55	265	1.5	175	310	90									Z1713
23.0	495	65	240	2.0	200	600	52									Z1714
24.0	650	110	325	1.0	230	520	28									Z1715
26.0	760	115	565	1.5	375	1100	36									Z1716
27.0	2050	635	860	2.0	555	3200	99									Z1717
29.0 to 32																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 48

ASSAYED BY ANALABS FROM 15 TO 30 DATE 9/9/83 PAGE 2 OF 10

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn	W								SAMPLE NUMBER
from 29.	580	350	940	4.0	550	2800	1030									Z1718
32.0	585	50	1200	0.5	1250	1500	BLD									Z1719
33.0	515	95	1300	0.5	1400	1000	35	BLD								Z1720
35.0	575	30	3100	BLD	2400	4500	23	BLD								Z1721
36.0	510	215	2250	BLD	2000	3500	25	BLD								Z1722
38.0	240	35	885	0.5	940	1300	6	BLD								Z1723
41.0	235	40	765	1.5	940	590	7	BLD								Z1724
44.0 to 46																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 48

ASSAYED BY Analabs FROM 30 TO 45m DATE 9/9/83 PAGE 3 OF 10

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn	Y								SAMPLE NUMBER
	35	30	695	0.5	1700	330	9	BLD								z 1725
46.0	5	15	320	1.0	2100	100	BLD	BLD								z 1726
47.0	5	10	245	0.5	1650	80	BLD	BLD								z 1727
49.0	5	20	635	BLD	2150	14	BLD	BLD								z 1728
50.0	5	25	55	0.5	2500	10	BLD	BLD								z7129
51.0	5	20	45	0.5	2550	8	BLD	BLD								z 1730
52.0	5	20	55	1.0	2400	10	BLD	BLD								z1731
53.0	5	20	1300	BLD	3200	10	BLD	BLD								z1732
54.0	5	10	20	0.5	1750	20	BLD	BLD								z 1733
55.0	5	80	205	1.0	140	6	BLD	BLD								z1734
56.0	10	290	455	0.5	150	9	18	BLD								z1735
57.0	45	285	540	1.0	140	20	76	BLD								z1736
58.0	10	110	305	0.5	250	40	24	BLD								z1737
59.0	105	25	340	0.5	280	10	BLD	BLD								z1738
60.0																

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 48

ASSAYED BY ANALABS FROM 45 TO 60 DATE 9/9/83 PAGE 4 OF 10

422621

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn	W								SAMPLE NUMBER
60.0	115	20	360	0.5	340	8	BLD	BLD								Z1739
61.0	105	20	125	0.5	280	11	BLD	BLD								Z1740
62.0	90	15	110	BLD	200	4	BLD	BLD								Z1741
63.0	55	10	85	BLD	165	15	BLD	BLD								Z1742
64.0	95	10	85	BLD	120	8	5	BLD								Z1744
65.0	100	5	125	BLD	220	5	BLD	BLD								Z1745
66.0	100	10	170	0.5	385	9	BLD	BLD								Z1746
67.0	75	5	140	BLD	330	6	BLD	BLD								Z1747
68.0	65	10	125	BLD	175	4	3	BLD								Z1748
69.0	45	10	110	BLD	95	3	BLD.	BLD								Z1749
70.0	90	BLD	120	0.5	290	6	BLD	BLD								Z1750
71.0	45	5	190	1.0	280	200	13	BLD								Z1751
72.0	165	5	110	3.5	215	2900	411	BLD								Z1752
73.0	70	5	75	BLD	140	100	9	BLD								Z1753
74.0	80	5	65	1.0	150	28	BLD	BLD								Z1754
75.0																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 48

ASSAYED BY ANALABS FROM 60 TO 75 DATE 9/9/83 PAGE 5 OF 10

422622

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn	W								SAMPLE NUMBER
75.0	125	BLD	70	1.5	190	46	4	BLD								Z1755
76.0	75	BLD	110	1.0	155	28	BLD	BLD								Z1756
77.0	110	205	545	1.5	160	1200	35	BLD								Z1757
78.0	40	65	215	1.0	185	4100	30	BLD								Z1758
79.0	45	100	430	2.0	150	3000	44	BLD								Z1759
80.0	30	120	420	1.0	135	54	21	BLD								Z1760
81.0	80	60	220	2.0	140	300	45	BLD								Z1761
82.0	20	5	190	2.0	130	93	25	BLD								Z1762
83.0	50	10	145	2.5	180	230	33	BLD								Z1763
84.0	140	95	225	3.0	225	180	247	BLD								Z1764
85.0	1150	110	425	5.5	240	450	510	BLD								Z1765
86.0	1150	265	2900	6.0	290	1100	1290	BLD								Z1766
87.0	210	200	555	5.0	220	6200	204	BLD								Z1767
88.0	145	915	1600	9.0	130	4600	109	BLD								Z1768
89.0	435	10	40	7.5	440	2500	37	BLD								Z1769
90.0																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 48

ASSAYED BY ANALABS FROM 75 TO 90 DATE 9/9/83 PAGE 6 OF 10

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422623

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn	W	SAMPLE NUMBER
90.0									
	130	50	80	9.0	205	1.65%	395	BLD	Z1770
91.0	135	5	85	3.5	450	3400	12	BLD	Z1771
92.0	25	BLD	95	1.5	165	100	5	BLD	Z1772
93.0	30	5	50	0.5	160	98	BLD	BLD	Z1773
94.0	30	BLD	65	1.5	135	22	BLD	BLD	Z1774
95.0	15	BLD	80	2.0	195	25	BLD	BLD	Z1775
96.0	35	BLD	70	1.0	160	28	34	BLD	Z1776
97.0	40	BLD	15	0.5	255	9	BLD	BLD	Z1777
98.0	30	BLD	30	BLD	335	13	BLD	BLD	Z1778
99.0	35	BLD	20	BLD	270	27	BLD	BLD	Z1779
100.0	75	25	105	1.0	130	26	11	BLD	Z1780
101.0	85	110	190	1.0	175	33	13	BLD	Z1781
102.0	45	75	265	BLD	260	95	6	BLD	Z1782
103.0	30	320	470	BLD	240	280	BLD	BLD	Z1783
104.0	55	35	120	BLD	290	25	BLD	BLD	Z1784
105.0									

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 48

ASSAYED BY ANALABS FROM 90 TO 105 DATE 9/9/83 PAGE 7 OF 10

566

422624

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn	W								SAMPLE NUMBER
105.0	135	190	295	1.5	210	910	198	BLD								Z1785
106.0	295	490	1800	7.0	325	8300	961	BLD								Z1786
107.0	45	170	515	1.0	140	3600	62	BLD								Z1787
108.0	90	130	410	1.0	275	4200	37	BLD								Z1788
109.0	135	210	435	3.0	150	1900	75	BLD								Z1789
110.0	100	140	395	1.0	260	4200	24	BLD								Z1790
111.0	125	200	240	1.0	135	100	46									Z1791
112.0	60	55	135	BLD	120	29	4									Z1792
113.0	75	5	110	BLD	155	33	7									Z1793
114.0	70	10	110	BLD	125	37	7									Z1794
115.0	70	30	85	BLD	175	21	5									Z1795
116.0	30	45	115	BLD	500	10	BLD									Z1796
117.0	40	40	130	BLD	165	14	BLD									Z1797
118.0	80	10	115	BLD	165	14	BLD									Z1798
119.0	70	5	120	BLD	130	14	BLD									Z1799
120.0																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 48

ASSAYED BY ANALABS FROM 105 TO 120 m DATE 9/9/83 PAGE 8 OF 10

422625

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn	SAMPLE NUMBER
120.0	60	30	175	BLD	145	24	5	Z 1800
121.0	75	155	255	BLD	150	97	7	Z 1801
122.0	105	690	5450	BLD	170	39	BLD	Z 1802
123.0	70	80	4500	BLD	130	100	7	Z 1803
124.0	85	35	695	BLD	145	12	4	Z1804
125.0	70	20	585	BLD	135	13	BLD	Z1805
126.0	55	20	675	BLD	145	12	4	Z1806
127.0	160	5	180	BLD	135	25	14	Z 1807
128.0	80	5	150	BLD	140	7	4	Z1808
129.0	75	5	230	BLD	140	10	4	Z1809
130.0	65	30	150	BLD	115	3	BLD	Z1810
131.0	55	5	190	BLD	145	2	BLD	Z1811
132.0	50	5	180	BLD	145	2	BLD	Z1812
133.0	65	10	170	BLD	130	4	4	Z1813
134.0	80	125	1550	BLD	130	20	BLD	Z1814
135.0								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 48

ASSAYED BY Analabs FROM 120 TO 135 DATE 9/9/83 PAGE 9 OF 10

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422626

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn									SAMPLE NUMBER
135.0	70	10	180	BLD	240	18	BLD									Z1815
136.0	50	5	180	BLD	155	10	BLD									Z1816
137.0	45	10	180	BLD	140	4	BLD									Z1817
138.0	75	5	140	BLD	140	1	BLD									Z1818
139.0	70	10	145	BLD	165	1	BLD									Z1819
140.0	70	10	225	BLD	125	4	BLD									Z1820
141.0	55	15	175	BLD	150	2	BLD									Z1821
142.0	75	20	1500	0.5	130	14	BLD									Z1822
143.0			EOH	DDH RBE 48		143.0m										

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 48

ASSAYED BY ANALABS FROM 135m TO 143 EOH DATE 9/9/83 PAGE 10 OF 10

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422627

DRILLHOLE LOG

R.B.E. 49

RBE 49 XRF Sn Portable

Spot check results.

11·7	0	
12	0	
13	0	
13·5	0·46 0·42.	Gossan. Only 20-25cm preserved. 2·1m loss 13·1 – 16·1.
13·6	0·11, 0·02,	
13·7	0·22, 0·22. 0·38	
16	0	
17		
18		
19	0	
20		
21		
22		
23·5	0	
24.		
24·3	0	
24·6	0·98, 0·07. 0·58 0·26	1 to 2mm wide qtz-py V. at 32°∠C. Got to be right on it for reading

571

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422629

RBE 49 XRF Sn Portable.

Spot check.

Interval	XRF Sn results.	Comment on core.
25m.	·08 (0·89)	Small vein near shale Contact.
26m	·0	
26.4	0·15. (0).	5mm wide V.
27	0	
28	0	
29	0	
31	0	
32	0	
33.	0	
34	0	
35	0	
36	0	
37	0	
38	0	
37·65	0	Py – Aspy – Qtz vein 70mm wide
39	0	
40	0	
41	0	
42.	0	
43.	0	
44	0	
44·7	0	Pyrite - dissem on Shallow ∠c f.
46	0	
47	0	
48	0	
49	0	
50	0	
51	0	
52	0	
53	0	
54	0	
55	0	
56.	0	
57	0	
58	0	
59	0	
60	0	

572

Standard RBE33.
0.16
0.57

422600

Standard 20996
0.96.
0.08

Page 3 of 5.

RBE 49. XRF Sn. Portable.

Spot checks.

Interval	XRF Sn result.	Comment on core.
61	0	
61.32	0.06	32°∠c Vein 20mm wide with Cpy
62	0.26	15°∠c. Vein 20mm wide. Py - qtz.
62.35.	0	
63.	0	
64	0	
65.	0	
65.82	0	] Black, dk gy Carb shales. Qtz narrow network. 65.7 65.05
66	0.02.	
66.6	0	
67	0	
68	0	
68.3.	0	
69.	0	
69.75	0.95	32mm wide 60°∠c V. py - Aspy - Sid - qtz V.
70	0	
71	0	
72	0	
73	0	
74	0	
75.	0	
76	0	
77	0	
78	0	
79.	0	
80	0	
81	0	
82.	0	
83.	0	
84	0	
85	0	
86	0	
87	0	
88	0	
87,	0	
88	0	
89.0,	0	
89.9	0	
90	0	
91	0	
92.	0	

Standard RBE33
0.38
0.4
0.25.

Standard 20996.

RBE49. XRF Sn Portable

Spot check.

Interval	XRF Sn results	Comment
93	0	
94	0	
95	0	
96	0	
97	0	
98	0	
99	0	
100	0	
101	0	
102	0	
103	0	
104	0	
105	0	
106	0	
167	0	
108	0	
109	0	
110	0	
111	0	
112	0	
113	0	
114	0	
115	0	
116	0	
117	0	
118	0	
119	0	
120	0	
121	0	
122	0	
123	0	
124	0	
125.	0	
126	0	
127	0	
128	0	
129	0	
130.	0	

574

Standard RBE53
0·33 .

422632

RBE49 XRF Sn Portal.

Spot Checks

Interval.	XRF Sn Results.	Comment.
131	0	
132	0	
133	0	
134	0	
135	0	
136	0	
137	0	
138	0	
139	0	
140	0	
141	0	
142	0	
143·	0	qtz – Aspy – Galena, sphalerite, siderite V.
143·8	0	at 43·8. Zone approx 60mm wide
145	0	
146	0	
147	0	
148	0	
149	0	
150.	0	
151	0	
152	0	
153	0	
154	0	
155	0	
156	0	
157	0	
158	0	
159	0	
160	0	
161	0	
162	0	
163	0	
164	0	
165	0	
166	0	
167	0	
168	0	
169	0	
170	0	
171	0	
172	0 + 0.	Qtz – zinc – Pb vein. Tried several places on vein.
173	0	
174	0	
175	0	
176	0	
177	0	
178	0	
179	0	
180	0	
181	0	
182	0	
183	0	
184	0.	

RBE 49 XRF Sn Portal. Analyser Results.

Standards.

Depth	Sn	Comment
11·7	0	
12	0	
13	0	
13·5	0·46, 0·42	Gosson 25cm wide piece preserved 2·1m core loss 13·1 – 16·1
13·6	0·11, 0·02	
13·7	0·22, 0·38 0·22	
16	0	
19	0	
23·5	0	
24·3	0	
24·6	0·98, 0·07 0·58, 0·26	1 to 2mm wide qtz py v at 32°∠C. Highest reading when beam right on V.
25	0·08 0·89	Small V near sh contact.
26	0	
26·4	0·15	5mm wide V.
27 – 37	0	On metre every metre.
37·65	0	py Aspy-qtz V. 70mm wide.
38 – 61	0	On m every metre
44·7	0	dissem py on fr.
61·32	0·06	32°∠CV 20mm w with Chalcopyrite
62	0·26	15°∠CCleav 20mm W. pyrite and qtz.
62·35	0	

Depth	Sn	Comment
64	0	
65	0	
65·82	0	
66	0·02	Black, dk gy Carb shales, Qtz narrow network 65·7-67·0
66·6	0	
67	0	
68	0	
68·3	0	
69	0	
69·75	0·95.	32mm wide 60°∠C V. py-Aspy-Sid-qtz
70	0	
71 – 89	0	On metre every metre.
89·9	0	
90	0	
91	0	
92 – 143	0	On metre every metre.
143·8	0	
145 – 184	0	On metre every metre.

SAMPLE NUMBER
Standard RBE 33 Tin V piece.
0·38
0·4
0·25.
0·33
0·16
0·57
Standard. Z0996
0·96
0·08

422633

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 49.

ASSAYED BY D S Thyme FROM 11·7 TO 184. DATE 2/12/83 PAGE 1 OF 1

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COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

422634

PROJECT EAST RENISON AREA GAT. East Exe R. DRILLHOLE TYPE Diamond NO RBE 49

CO-ORDS E 373150 E. N 5372720 N (field survey) DEC^LN 045° AZIMUTH 219° m RL 112 m approx.

DATE COMMENCED 22/11/83 DATE COMPLETED 30/11/83 DRILLED BY W Waelkens LONGYEAR DRILL RIG LONGYEAR 38

GEOLOGIST(S) O S Hysse. 0–2m Triconed. 2–13·1m HQ 13·1–184·1m NQ

SURVEY DATA INSTRUMENT Eastman Camera.

DEPTH	CORRECT DEC^LN	AZIMUTH	DEPTH	CORRECT DEC^LN	AZIMUTH
0	45°	219°m.			
34m	43½°	215°m			
64m.	45¼°	215½°m.			
94 m	45¾°	215°m.			
124 m	46°	214½ m			
154m	47°	215°m.			
184m.	47¾°	216°m.			

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
0 – 6·5m	FLUVIOGLACIAL / GLACIAL Till. Boulders of		
	acid Porphyry and Quartzites.		
6·5–35·6 m	Dark grey Carbonaceous pyritic Shales / siltstones.	Gossanous layer c̄ detectable.	14–14·3m =
	interbedded c̄ Lt grey tuffaceous sandstones.	XRF Sn. Approx 14–14·3m.	0·11 to 0·46%Sn
	BASE OF OXIDATION 20·2m. PYRITE below 20·2	Intermittent detectable Sn to	26·4m.
	2–5% esp in Black Shales. Bedding 30 to 41°∠C.		
35·6 – 55·1m.	DK gy Carb shales, siltstones, minor interbedded		
	Sandstones. BASALTIC / OR BASIC INTRUSIVE layer EXTRUSIVE (LAVA) 37·0–37·85m.		
	CLAYEY broken core 40·3–41·5m. 23°∠C qtz –	pyrite in shales	
	carbonate veining assoc c̄ basalt. PYRITE Veinlets.	average 5%.	
	Two sets 40°∠C e 10°∠C. Relationships, 40 10 / B.	Lineation of fine gr py	43·10–55·3.
55·1 – 65·75.	Lt grey tuffaceous sandstones, few narrow	57·8 & 58·45. qtz-sid V c̄ py	Aspy, minor Cpy and
	interbedded light gy cherty siltstones.	BASE METAL Veins at 60–70°∠C.	Pb.
	fracturing at shallow angle core (10–13°) CHLORITIC	59·7 Galena on fracture at	32°∠C. (Pb).
	Basic Layer 57·6–58·8. Tuffaceous under 58·8–59·6	61·1–61·3. Vein 140mm 35–37°∠C.	Minor Cu, Pb, Zn.
65·75 – 73·4.	Tuffaceous sandstones interbedded c̄ dk gy e	Intermittent detectable Sn	
	Lt gy siltstones. In part carbonaceous. Tensional	by XRF 61·3 – 70m.	
	cavities / gashes in Sa. Elongated 13°∠c. Small	pyrite overall	1–2%.
	qtz–Aspy–py–Sid V at approx 60°∠C, 13 V = 60°∠c.	32mm wide V at	60°∠C.
	CALCITE VEINATION COMMENCES 71·8m.	at 69·75m. with	0·95% Sn.
73·4 – 129·85m.	INTERMITTENT CALCAREOUS BEDS Coarse beds calcareous	dissem py ±	
	near top predom. Some Cal PELITES towards bottom.	po, Aspy in	to 5–7%
	Mainly Lt greenish gy tuff sa c̄ interbedded gy,	Calcareous beds	
	dk gy siltstones. Variable Carbonaceous Content.		
	CAL PSAMMITES. 76–77·25, 79·65–85·50, 99·55–100m.		
	CAL PSAMMITES e CAL PELITES, interbedded 112–115·4m. 126·6–127·8m.		
	calcite Veination common in Calc beds, few Qtz-calcite V.		
	Rare qtz Veining Bedding 0 to 40°∠C. Mainly 12 to 25°∠C.		
	CORE FIRM and Not fractured as above.		

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OF 2

COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

422635

PROJECT EAST RENISON AREA 6A7. East Exe R. DRILLHOLE TYPE Diamond NO RBE49
CO-ORDS E 373150E N 5372720N (field survey) DECLN 045° AZIMUTH 219°m: RL 112m approx.
DATE COMMENCED 22/11/83 DATE COMPLETED 30/11/83. DRILLED BY W Woelkers LONGYEAR DRILL RIG LONGYEAR 38.
GEOLOGIST(S) D S Hyme 0–2m Tricone 2–13.1m HΦ Core 13.1–184.1m NΦ Core

SURVEY DATA

DEPTH	CORRECT DEC^LN	AZIMUTH
0 m.	45°	219°m
34 m	43½°	215°m
64 m	45¼°	215½°m
94 m	45¾°	215°m
124 m	46°	214½°m
154 m	47°	215°m
184 m	47¾°	216°m.

INSTRUMENT

DEPTH	CORRECT DEC^LN	AZIMUTH

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
129.85–142.75	Lt greenish grey & greyish tuffaceous sandstones.		
	More Massive than above beds near top. Few		
	interbedded siltstones, 0.2 to 0.6m wide near bottom.		
	Core firm to 142.1m. Intermixed beds. (Sandstone		
	fragments in) 128.2–128.36 above & 138.85–139.4m.		
	BEDS NON CALCAREOUS. (Change in Sed. at 129.85) (Hiatus?)		
142.75–153.7	BROKEN, FRACTURED. ALTERED (?DOLOMITIC in part)		
	2 petrology samples. Film of clays, calcareous clays,	143.6. Qtz-Ankerite V.	Sphalerite
	calcite on fractures. Lenses of chlorite. Spotty.	Total width 100mm wide.	and Galena
	albitization near fractures. Talc on fr 150.2–152.9m.	Analogue to fracture orientated	Sp 10%
	Principal fractures at low angle to Core (less 20°∠C)	at high angle to Core.	of vein.
153.7– 163.3	Predominantly grey tuffaceous sandstones. Mixed	162.95–163.1m	
	transitional beds at bottom. 161.8–163.3.	40°∠C fr contains py, Cpy.	Minor
	Qtz V at high angle C A where they occur	Minor Sp & Galena on 16°∠C.	Cu, Pb, Zn.
	against shallow angle C axis for fr, calcite V & Bedding.	Later = Late replacement?	
	Bedding 15–22°∠C. Graphite on fr with Cu. above.		
163.3 – 177.6	Brown, grey & grey tuffaceous Sandstones.	171.93–172.12m. Sp, Ga, py c̄	Sphalerite
	Bedding 16 to 52°∠C.	qtz-calcite-ankerite V, 2 veins	10 to 15%
		115 & 50mm wide. at 58°∠C.	of veins.
177.6 – 182.8	CAL PSAMMITES. & interbedded grey CAL		
	PELITES and dk gy carbonaceous. Cal pelites	py between 2–4%.	
	Calcite Veination increases to 5%		
182.8 – 184.1	Non Calcareous tuff sandstones, minor dk		
	grey siltstones. Bedding 25–35°∠C.		
	E O H. 184.1.		
N.B.	With Portal XRF. Detectable Sn in zones 13.5–26.4m and 61 to 70m.		

DRILL ADVANCE

LITHOLOGY

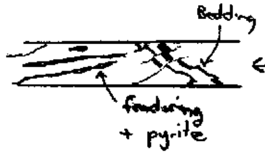
LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
						0–2m TRICONED. GLACIAL SANDS.					
	2	4.5m	0.5m.	11.1%		2–6.5m. Fluvioglacial / glacial till. 2 Boulders. a Granite Porphyry. (sericite, chlorite, silica alt) b Quartzite. HQ core.					
	6.5	6.6m	5.11	77%		6.5–13.1m. Brownish and greyish bedded siltstones with distinct interbedded tuff sa beds to 15mm wide, blackish partially bleached shale or carbonaceous siltstone beds to 5mm wide. 13.10m. END OF HQ CORE. REDUCED TO NQ.	possible limonite in tuff sa after impregnated sulphides Bleaching, weathering.		8.2 Bedding 32°∠C. 9.3 Bedding 38°∠C. 11.0 Bedding 33°∠C.		
	13.1	7.1	1.6	22.5.		13.10 – 20.2 Lt grey to Olive grey interbedded siltstones, sandstones. Later tuffaceous, wider than above.	Gossanous impreg tuff sa approx 14-14.3. Elsewhere lim staining and clay on fractures.		Approx 14 – 14.30. Gossanous layer, after impregnated py in tuff sa. Replacement?		

SCALE 1:100 (1cm = 1 m)

422636

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 49

LOGGED BY D S Hyne FROM 0 TO 15m DATE 25/ 11 / 83 PAGE 1 OF 13,

DRILL ADVANCE					LITHOLOGY						
LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					16 17 18 19 20		Lim staining on fractures to 20.2. 20.2 Base of oxidation.				
	20.2	10.8	7.43	68.8	21 22 23 24 25 26 27 28 29 30	20.2 – 31.0 Dark grey siltstone, shales with interbedded black carbonaceous shales and lt grey tuff sandstones. 20.2 – 22.0 . Black pyritic. Carbonaceous shales. Extensively broken. Beds usually narrow 2 to 10mm wide. Sandstone bed to 150mm wide.	disseminated fresh py in Black shales and some grey tuff sandstones. Coarser in later. Some narrow beds (2mm wide) replaced with pyrite. Narrow qtz - pyrite vein. at 26.45m. Conformal.  23.8 Minor lim staining.		Widest sandstone bed to 150mm wide. Sa. brittle in part - thus partly fractured and broken core. 24.3 Bedding 38° ∠ c. 25.5 Bedding 41° ∠ c. 27.7. Bedding 30° ∠ c. Between. 27.25 – 28. microfracturing offsets bedding. Small lenses. and narrow layes containing pyrite, possibly Aspy (minor)	pyrite 3 – 5% disseme in bands, small veins.	

SCALE 1:100 (1cm = 1 m)

422637

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE49

LOGGED BY O S Skyrme FROM 15m TO 30m DATE 25/11/83 PAGE 2 OF 13

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	31·0	2·9	2·9	100
	32·9	1·5	1·3	86·6%
	34·4	1·2	1·0	83·3%
	35·6	1·4	1·04	100
	37·0	1·1	0·8	72·7%
	38·1	3·4	2·8	82·3%
	41·5	1·6	0·7	43·7%
	43·1	1·5	1·15	76·6%
	44·6			

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
31	31 — 35·6. Lt gy tuffaceous sandstone. with carbonaceous siltstone interbedded between 32·3 — 32·6 m.	Sandstones - brittle. Tensional cavities - some filled c̄ quartz. 32·3m 20mm wide qtz - pyrite layer conformal along bedding. pyrite dissem through sa. Approx 1-2%		32 Group of 2 to 3 qtz V 2 to 10mm wide over 10cm. Veins at 65°∠C. 32·3. Bedding + py-qtz impregnated layer 32°∠C. pyrite layer 12mm wide. 35·0 Bedding 30°∠C	pyrite, over interval.	to 2-3%
36	35·6-45. Interbedded Black carbonaceous shales, Basaltic tuffs, Lt gy tuff sa, psammopelites and dk gy carbonaceous siltstones. Black shales from 35·6-36·8 m Basaltic tuffs 37·0-37·85m, Carbonaceous siltstones 41·4-45·0m. Core clayey - broken. 40·3-41·5m.	Black shales - pyritic. Gn basaltic tuff between 37·3-37·85m. siderite - ankerite - qtz - pyrite - chlorite veining. coarse dissem py in Lt gy sa., pspel. Marcasite on fracture as layers between 44·6-45m. pyrite veinlets in Carb siltstones. with Carbonates & qtz between 43·4-44·6. Clayey incompetent (fault Z) 40·3-41·5.		36·3. Qtz crystals. in narrow shallow angle core cavity. 37·3-37·85. Main vein structure at lower contact. TW of 80mm. at 23°∠c. Approx 20mm W siderite upper margin then sid - py impregnation for 40mm then lower 40mm of qtz - py impregnation. at contact. Complementary chlorite veins in marginal zones. Veining continues to 38·1.	pyrite 2-3% higher py content in black shales and in zone 37·3-37·85.	

SCALE 1:100 (1cm = 1 m)

42238

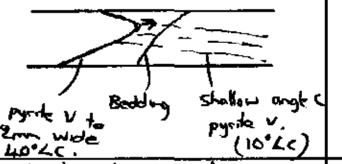
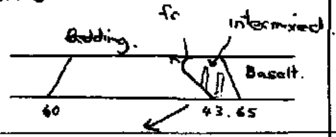
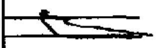
COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE49

LOGGED BY O S Skyrme FROM 30 TO 45m DATE 26/11/81 PAGE 3 OF 13.

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	44.6 to 45.5	0.9	0.9	100.
		1.5	0.75	50
	47.0	2.1	1.72	81.9%
	49.1	0.75	0.75	100
	49.85	2.25	1.35	60
	52.1	1.5	1.3.	86.6
	53.6	1.4	1.07	76.4
	55.0	1.6	0.7	43.7
	56.6	1.5	1.42	94.6%
	58.1	1.5	1.4	93.3%
	59.6 to 61.10	1.5	1.35.	0.9

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
46 47 48 49 50 51 52 53 54 55	45–55.1 Dk grey carbonaceous siltstones. narrow conformal py veining. and veins on cross fracture planes.	Graphitic on shallow angle core fractures at approximately 51m. narrow pyrite veins, veinlets throughout. Conformal veins more frequent towards bottom. Between 35–55°∠c.		narrow pyrite veins. Most less 2mm wide. 20 to 40mm apart, narrow semi conformal. py veinlets (hairline like) 43.1–55.3. 49.3–53.3. Much of pyrite veinlets and fracturing at about 10°∠c. at 48.8. Weak Bedding at 45°∠c disturbed and offset. Relation here seems to be 	pyrite approx 5%.	
56 57	55.1–65.75. Lt gy sandstones (tuffaceous) c̄ narrow interbedded siltstones. Later pale grey, chert like in places and mainly less 10mm wide. Interval contains.	55.1–57.6 Some fc. with buff coloured clay film - kaolin. Nontronite.		Contact sharp at 35°∠c Lower contact – not conformal. 		
58	57.60 – 58.80. Chloritised.	-57.8–57.96. qtz - sid - py V. -58.45 py-ASPY (qtz-sid) V. also pyrrhotite, Cpy, Pb.		- Vein at 70°∠c. Contains minor (Vein sim orientation to 65° above). -58.45. Vein 30mm wide, 60–70°∠c.	lenses (aggreg) py - Aspy. MINOR BASE METALS.	
59	Basaltic unit (tuffaceous?). Contains qtz- siderite vein and Aspy-py-Cpy (pb) vein. Basalt underlain	aspy and py in tensional fc and cavities c̄ on upper Contact.		Fracture - Tensional c̄ qtz crystal + py at 10°∠c. Oblique to 60°∠c fracture		
60	58.80 – 59.6. Coarse tuff with ~~cream coloured~~ clasts to 5mm. lenght.	-59.7. Galena on fc -60.0 silica - chlorite - py alteration in cavities.		Galena fracture at 32°∠c. Cavities at shallow angle c.		

SCALE 1:100 (1cm = 1 m)

petrology 58.3
59.2.

422966

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE49

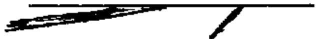
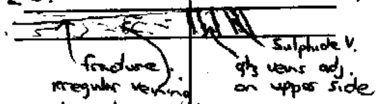
LOGGED BY D S Shynne FROM 45m TO 60m DATE 26/11/83 PAGE 4 OF 13.

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
		See previous	sheet	
	61.10	2.4	2.4	100
	63.5	3.1	2.96	95.5%
	66.6	1.7	1.7	100
	68.3	1.4	1.25	89.%
	69.7	1.45	1.45	100
	71.15	1.95	1.85	94.8%
	73.10 to 75.95	2.85	2.70	94.7%

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
61 62 63 64 65	see previous sheet.	61.10 – 61.30 Vein zone 140mm wide - qtz - chlorite - vuggy. - irregular qtz. patches of sphalerite, galena (spot, blebs) near top. Lower 15mm wide layer with Chalcopyrite and pyrite. Diopside?- chlorite streaks patches in veining and across adj beds. with v at 62.4 Clay on margin yellowish (Nontronite?) See other veins.		61.10-61.30. Veining conformal. bedding & Veining 35-37°∠C. 62.0 20mm wide vein - py & qtz at 13°∠C. also Aspy. 62.4 60mm wide qtz vein zone. 37°∠C. 63.0-63.5 shallow qtz-diopside - vuggy zone. Relation between 37°∠C conformal structures and 10-13°∠C structures here.  64.6-64.9. Shallow ∠ C Vuggy qtz-Diopside / adjacent tensional fractures - cavities.	61.1-61.3 Minor Cu, Pb, Zn. Cu lower vein margin, Pb Zn towards upper margins. Small blebs. of sp ē Ga.	
66 67 68 69 70 71 72 73	65.75–73.4 grey, greenish grey tuffaceous sandstones interbedded with dk gy and lt grey siltstones. 9m part Carbonaceous. Dk gy carb siltstones mainly confined to 65.75–67.50.	Tensional cavities, gashes, throughout, esp in more brittle ss beds. - Sim to above. Chloritic - most intense 69– 70.7m. Carb ss graphitic on some fractures, small qtz veination throughout ± carbonate. (siderite, ankerite) CALCITE VEINATION COMMENCE 71.8m.		66.7 Tensional fracture at 13°∠C. Graphite film on plane. in part and on associated fractures. 68.10 to 69 Tensional. fracture. Shallow angle to core follows core axis in parts. Up to 25mm wide.- Narrow qtz and tensional gashes. Graphite smears. Minor py and carbonates. 70.12 – 70.22. 70mm wide py-Aspy-qtz-sid Vein. at 60°∠C. Relation to shallow ∠C appears to be.  71.55-72.20. Tensional cavities ē qtz V. Main Veining & fracture at Shallow angle to C. (less 10°)	Dissem py. Some arsenopyrite. with py in vein at 70.12-70.22m. Overall py	422960 1.2%
74 75	See next page.			71.80 – 75.80. Calcite veinlets, veins at approx 13°∠C. at 73.9-74.15. Calcite V 5mm wide ē Po aggregs. Dips at 13°∠C but relation to main set =  		

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 49

LOGGED BY D S Skyrme FROM 60 TO 75m DATE 28/11/83 PAGE 5 OF 13.

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	75.95.	2.75	2.75	100
	78.70	1.3	1.3	100
	80.0	2.1	2.1	100
	82.1	3.0	2.87	95
	85.1	1.0	1.0	100
	86.1	BIT CHANGE	BIT #3-86	
		2.0	2.0	100
	88.1 to 91.10	3.0	2.83	94.3%

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

DESCRIPTION

73.4 – 90.

Light greenish gy sandstones (tuffaceous) interbedded with light grey smooth siltstones and grey bedded siltstones. tuffaceous sandstone beds. predominate. Calcareous in part. Sa beds and ss to 1.5m wide. few narrow interbedded and graded units.

Calcareous tuffaceous psammite beds between. 76m – 77.25m
79.65 – 85.50.

ALTERATION

Core firmer much less broken and not vuggy as above.

decrease downwards of dissem and vein pyrite. Generally absent from. 75.50m onwards. Some specks of Aspy in veins to this depth.

No quartz or siderite veining. – CALCITE veination, and wider veins common throughout. Between 4–8% of core.

STRUCTURE

76.4 Bedding approx 26°∠c
Calcite V dipping in same direction at approx 22°∠c

79.0 Bedding approx 19°∠c

79.8 " at 27°∠c.

82.3 Bedding at 23°∠c.

85.4 Bedding at 13°∠c.

With above measurement some influence of intercalations, slumping and movement along shallow angle core fractures.

88.8 – 89.25. Semi massive CALCITE VEINING/VEIN.

89.6 – 89.7 90mm wide calcite vein. Bedding and veining at approx 38°∠c.

MINERALISATION

VISUAL PERCENTAGE MINERALISATION

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RRE49

LOGGED BY D S Hyne FROM 75m TO 90m DATE 28/11/83 PAGE 6 OF 13.

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
		See previous	page.	
	91·10	3·0	3·0	100
	94·1	3·0	3·0	100
	97·1	3·0	3·0	100
	100·1	3·0	3·0	100
	103·1 to 106·1	3·0	3·0	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL

DESCRIPTION

90 – 105.

Interbedded light grey tuffaceous sandstones with dk gy and grey siltstones. Non calcareous except 99.55 – 100m.

ALTERATION

Calcite veination less than above below 92 m.

qtz-calcite veins make appearance (mentioned in structure) minor ankerite.

Small lenses, aggregs of pyrrhotite $\bar{c}$ Cpy. on hairlike fractures at 94·70m.

dissem aggregs of py 99–100m

Bedding and narrow vein control.

GRAPHIC LOG

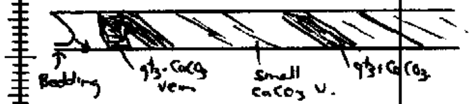
STRUCTURE

90-92. Bedding less 12°∠c. follows core axis in part undulating intercalated sed 91m fracture at shallow angle. Some narrow Carbonate veins.

91·90 Bedding swings to approx 15°∠c

92·5 Bedding 38°∠c.

92·54–93 2 qtz-calcite veins. 1st bifurcates. Top 20mm w V nearly normal to core axis. lower 30mm at 50°∠c. Lower again 30mm wide. 50°∠c. Semi parallel narrow qtz veins at 37°∠c. Relations =



94·55 Bedding 40°∠c

95·40 " 22°∠c.

94·66 Cpy-Po aggreg along narrow veinlets 15-25°∠c dip with bedding.

95·7–96. Slumped bed. follows core axis.

96 Bedding at 28°∠c truncates above.

96-99 Bedding mainly between 12 & 25°∠c.

99-100 · aggregs of py minor po. · Sulphide to 5-7%. Calcareous beds 99.55- 100.

99·5–102 Bedding mainly 12 to 20°∠c.

105. Bedding less 15°∠c.

MINERALISATION

99–100

VISUAL PERCENTAGE MINERALISATION

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE49

LOGGED BY D S Shynne FROM 90m TO 105m DATE 29/ 11/ 85 PAGE 7 OF 13.

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
		See previous	page.	
	106·1	3·0	3·0	100
	109·1	3·0	3·0	100
	112·1	3·0	3·0	100
	115·1	3·0	2·82	94
	118·1 to 121·1	3·0	3·0	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

DESCRIPTION

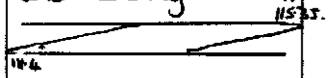
105–120m.

Interbedded, intercalated grey, dk gy siltstones with light grey tuffaceous sandstones. CALC PSAMMITES with. cal pelites between 112—115·4m.

ALTERATION

Increase in calcite and calcite-qtz veination towards and in Calcareous beds.

disseminated aggreg of py start in bed commencing 111·4m. and ending 115·35m.



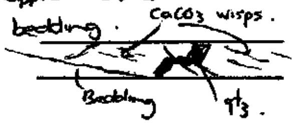
GRAPHIC LOG

STRUCTURE

to 114m bedding less than 20°∠C. fluctuates - intercalated and disturbed - though usually approx to 10°∠C.

Beds 111·4 – 115·35. at 12°∠C. dissem pyrite to 5-7%. in lower part of bed where calcareous. Blebs, small irreg aggregs, few small irregular lenses.

114·65 150mm wide qtz V. Calcareous on micro fractures. Vein Trends approx 55°∠C across bedding.



118·4 – 118·8. Boudinaged – slumped beds. Clasts of tuff sa in darker gy psammopelite matrix.

MINERALISATION

115 py to 5-7% over true width of. approx 20cm.

VISUAL PERCENTAGE MINERALISATION

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE49

LOGGED BY D S Hyne FROM 105 TO 120m. DATE 29/11/83. PAGE 8 OF 13.

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
		see previous page.		
	121·1	3·0	3·0	100
	124·1	3·0	3·0	100
	127·1	3·0	2·84	94·6
	130·1	3·0	3·0	100
	133·1 to 136·1	3·0	3·0	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
121–129	120–129·85. Interbedded, intercalated dk gy, grey siltstones, tuffaceous sandstones, Beds usually less 10mm, though few more massive tuff Sa towards top and bottom of this interval. Cal PELITES, CAL PSAMMITES. 126·60 – 127·80. Resembles "Zebra" beds. Intermittent weaker reaction to HCL elsewhere. change in sedimentation	Blebs, aggregates, specks of pyrite associated with cal pelites, Cal psammites, 126·6 – 127·8. to wider, coarser beds		121·30 Bedding approx 27°∠c 121·45. Calcite - ankerite v 15-20mm wide 50°∠c. across bedding.  CaCO3 v. conformal. veins. 122·1 Bedding to 60°∠c. B. 123·2 Bedding at 62°∠c. 123·8 " " 25°∠c. 124·4 " " 62°∠c. 124·9 " " 35°∠c. 125·6 " " 16°∠c. 125·9 Tight fold.  126·74 Possible 2nd fold. Between 125·9-126·74 a number of smaller folds. 127·10 Bedding at 38°∠c. more regular. Appears to have same orientation to above readings in relation to dip dir a core axis. 127·7 Bedding at 39°∠c 128·20–128·36 BOUDINAGED, FRAGMENTED. Sa bed. Clasts of sa in dk gy psammopelite bed. (Sim to above)	127·10 – 127·80 pyrite 3–5%.	
130–135.	129·85 – 135·76 greyish to Lt greenish greyish tuffaceous sa (tuff psammite) fine grained. More massive than above beds.	Calcite veinlets fewer than above.		Veinlets, veins mainly less 1mm wide, except- 134·2. Fracture at 21°∠c. associated calcite veining to 5mm wide. minor chlorite.		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE49

LOGGED BY O S Hyne FROM 120 TO 135m DATE 29/11/83. PAGE 9 OF 13.

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	136.1	2.9	2.9	100
	139.0	3.1	3.1	100
	142.1	1.3	1.05	80.7
	143.4	1.45	1.0	68.9.
	144.85	0.9	0.9	100
	145.75	0.6	0.6	100
	146.35	0.95	0.65	68.4
	147.3	0.95	0.95	100
	148.25.	1.35	1.35	100
	149.60	0.6	0.6	100
	150.20			

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	See previous page.					
136 137 138 139 140 141 142	135.76 – 142.75 Lt gy, Lt greenish gy tuff sandstones interbedded with grey, dk grey siltstones. Most beds 0.2 to 0.6m wide. Beds non calcareous. CHANGE TO BROKEN CORE.	Few sparse Calcite - qtz veinlets. One vein as mentioned. - 142.1 fracturing beginning to appear - at 20°∠c.		137.3 Calcite (Ankerite) – qtz V 35mm wide 20°∠c. 138.85 – 139.4 BRECCIATED Bed. as. slump, boudinaged beds above - c̄ sa clast in finer darker gy matrix. similar 140.8 – 141.4. – as above. Bedding/or fr causing brecciation about 15°∠c. though at 138.85 contact complex and at higher angle.		
143 144 145	142.75 – 145.65. Broken dk gy siltstones, tuffaceous sandstones.	Dk siltstones, shales partly clayey. fine dissem py and on fractures.		shallow angle Core fracture. 142.75 – 143.8. 143.6 qtz-ankerite vein Main part 60mm wide Total width of zone 100mm wide Sphalerite layers on margin to 5mm wide. VEIN HIGH ANGLE TO CORE. apart from Low ∠ Core fractures. few 40 – 60° ∠ core fractures. Contact at 145.65 approx 45°.	CONTAINS SPHALERITE & GALENA on margins.	Sp = 10% of vein
146 147 148 149 150	145.65 – 150.20 Broken. pale brownish gy core. Partly DOLOMITIC? WEAK HCL reaction. Petrology at 147.3.	film of calcite and/or Calcareous clays on some fractures. Lenses of chlorite - also on fractures. Halos. (cream in colour) around some fragments (clast or primary feature?).		Principal fracturing at less 20°∠c. - alteration clast ◎ at 148. Near fracture. Resembles albitization. features.		

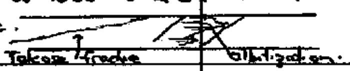
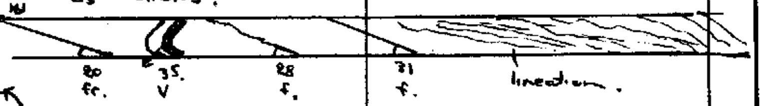
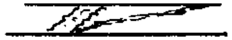
COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 49

LOGGED BY O S Shyne FROM 135 TO 150m DATE 29/11/83 PAGE 10 OF 13.

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	150·2	1·6	1·3	81·2
	151·8	1·1	0·8	72·7
	152·9	1·2	1·1	91·6
	154·1	1·2	1·2	100
	155·3	1·8	1·72	95·5
	157·1	3·0	3·0	100
	160·1	2·2	2·04	92·7
	162·3	2·4	2·23	92·9
	164·7	See	Next	page

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
151 152	150·2 – 152·9. Clayey, altered fracture zone. Overall whitish to buff colour. see Pet for describ of alteration.	alteration. Talc (whitish greasy, soft) on fracture plane. Adjacent cream zones of Albitization. Also chlorite phlogopite.		151·2 Bedding c̄ fracturing 24°∠C. - assoc albitization. 151·2 – 152·9 Talcose on fracture fracture at less 6°∠C. Relation appears to be. 		
153	152·9 – 153·7 Broken, fr. dk grey siltstones.			Minor qtz.. a pyrite band 8mm wide. high angle Core.		
154 155 156 157 158 159 160	153·7 – 163·3. predominantly grey tuffaceous sandstone. Dk gy siltstone horizon 157·2 — 158m. see disturbed, mixed beds below.	narrow low angle calcite veins. Several wider calcite - qtz veins at higher angle to core axis.		155·5. qtz-Cal veining. approx 50mm wide, 25°∠c. 156·3 – 156·65. Several qtz-Cal.V wide. at. 40°∠C. 157·2 Bedding approx 15°∠c. 158·1 Bedding approx 15°∠c 159·6 Bedding approx 22°∠c. though uneven. Wavy, microfractured.	28, 35, 60 mm	
161 162 163	161·18 – 163·3. Lineated mixed shales, tuff sa, calcareous beds and narrow semi conformal lenses of calcite - qtz. transitional.	narrow lenses, wisps, veins of calcite ∓ qtz. On fracture Talcose clay film. Minor pyrite, marcasite, chlorite		161 — 162. lineation, fracturing patterns. as follows. 		
164 165.	See next page.			162·95 – 163·1. Fracture at 40°∠c. also trend at 16°∠c. Former (40°∠c fr) contains pyrite, chalcopyrite Zone. 35mm wide. Later 16°∠C contains Sphalerite. Later replacement? minor pyrite galena. GRAPHITE also on fr associated c̄ Cpy.		

SCALE 1:100 (1cm = 1 m)

422646

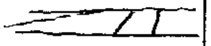
COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE49

LOGGED BY D S FROM 150 TO 165m DATE 30/ 11/ 83 PAGE 11 OF 13.

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	from 164.7.	3.05	3.05	100
	167.75	3.15	3.15	100
	170.9	3.2	2.66	83.1
	174.1	3.0	3.0	100
	177.1 to 180.2	3.1	3.1	100

LITHOLOGY

INTERVAL / DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
163.3 - 177.60. Brownish grey and grey tuffaceous psammites (sandstones) some interbedded lt gy and dk grey siltstones, psammopelites.	Intensity of veining increases. Some narrow Calcareous veins. + qtz - calcite veins. Later usually wider. Minor chlorite assoc with veining. 171.93 – 172.12m. sphalerite, galena, pyrite with qtz - calcite - ankerite veining.		165. Bedding approx 16°∠c. 166.80 Bedding 30°∠c. 167.75 – 168.10 qtz - Calcite - Ankerite minor dissem Aspy - Chloritic veining. Veining possibly at 25°∠c. 170.1 – 170.9. fr less 10°∠c. - Sim to bedding 38°∠c vein pattern across fr + B.  V. Bedding + fr. 171.5 - 171.8. Qtz - Carbonate v + Chlorite + po. 38°∠c. 171.93 – 172.12 Two veins, 115mm and 50mm wide. at 58°∠c 38 – 58°∠c planes appear to be sim orientated to 10 – 16°∠c.  175.8 B approx 52°∠c. 176.0 Bedding at 43°∠c.	Sphalerite + Galena. Sphalerite to 10 - 15% of V.	
177.60 – 182.8m. See next page. Intermittent Cal Pelites, Cal psammites.			177.8 Bedding 25 – 28°∠c. 178.6 Contorted beds. dip approx 20°∠c.		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE49

LOGGED BY D S Wynne FROM 165 TO 180m, DATE 30/11/83 PAGE 12 OF 13

DRILL ADVANCE					LITHOLOGY						
LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	180·2	2·9			181 182	177·6 – 182·8. grey Cal psammites and interbedded dk gy carbonaceous Calpelites and grey Cal pelites. Few non HCL reaction beds.	Calcite veination to 5% Increase in dissem py and replacement wisps of py in beds.		180·30 Bedding 60°<c.	py between 2-4%	
	183·1	1·0			183 184	Non calcareous tuffaceous sandstones Minor dk grey siltstones.	Narrow calcite veins with aggres of pyrite.		83·10 – 184 Bedding. 25-35°∠c.		
	184·1				185.	E.O.H 184·1.					

SCALE 1:100 (1cm = 1 m)

422648

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE49

LOGGED BY D S Hynne FROM 180 TO 184·1m DATE 30/11/83 PAGE 13 OF 13

Metres	Pb	Zn	Cu	Ag	Ni	As	Sn									SAMPLE NUMBER
13.1–16.1	125	150.	275	BLD	25	250	597									Z 2201

all split Core.

No sampling between
0 – 13·1
73 – 142
172 – 184·1
E·O·H 184·1

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 49

ASSAYED BY ANALABS FROM 0 TO 15m DATE / 1 / 84 PAGE 1 OF 8

Metres	Pb	Zn	Cu	Ag	Ni	As	Sn	SAMPLE NUMBER
16.1	25	175	425	BLD	75	140	73	Z 2202
19.0	325	200	350	2	75	200	610	Z 2203
22.1	BLD	200	175	BLD	125	44	141	Z 2204
24.9	BLD	150	450	BLD	100	1600	699	Z 2205
27m	BLD	100	125	BLD	75	12	6	Z 2206
29m-32m								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 49

ASSAYED BY ANALABS FROM 15 TO 30 DATE /1/84 PAGE 2 OF 8

593

Metres	Pb	Zn	Cu	Ag	Ni	As	Sn	SAMPLE NUMBER
	BLD	325	100	BLD	100	62	13	Z 2207
32m	BLD	150	325	BLD	100	220	1720	Z 2208
34m	BLD	150	150	BLD	75	240	1550	Z 2209
36m	BLD	200	225	1	100	1600	410	Z 2210
38m	BLD	275	100	1	75	150	19	Z 2211
41m	BLD	150	175	1	75	500	46	Z 2212
44m-46m	25	325	125	1	75	900	122	Z 2213

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR DDH RBE 49

ASSAYED BY ANALABS FROM 30 TO 45 DATE /1/84 PAGE 3 OF 8

422651

Metres	Pb	Zn	Cu	Ag	Ni	As	Sn	SAMPLE NUMBER
46m	BLD	75	100	1	75	60	7	Z 2214
48m	BLD	75	125	BLD	100	21	BLD	Z 2215
50m	BLD	75	100	BLD	75	150	BLD	Z 2216
52m	BLD	100	100	BLD	75	22	BLD	Z 2217
53m	BLD	150	125	1	75	22	BLD	Z 2218
54m	BLD	100	100	BLD	75	27	BLD	Z 2219
55m	BLD	125	50	BLD	125	350	17	Z 2220
57m	BLD	125	75	BLD	125	300	4	Z 2221
58m	75	375	1325	5	75	2500	281	Z 2222
59m	975	1400	125	1	100	70	26	Z 2223
60m								

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 49

ASSAYED BY ANALABS FROM 45 TO 60 DATE /1/84 PAGE 4 OF 8

Metres	Pb	Zn	Cu	Ag	Ni	As	Sn									SAMPLE NUMBER
60m	25	125	50	BLD	100	240	12									Z 2224
61m	150	625	700	4	75	450	136									Z 2225
62m	50	225	375	BLD	100	600	114									Z 2226
63 m	BLD	100	125	BLD	125	69	36									Z 2227
64 m	BLD	100	75	BLD	125	32	BLD									Z 2228
65m	BLD	125	25	BLD	125	54	17									Z 2229
66m	25	175	25	1	100	60	1660									Z 2230
67m	500	1300	200	BLD	125	64	42									Z 2231
68m	125	350	175	BLD	125	520	269									Z2232
69m	BLD	125	BLD	BLD	100	1900	46									Z 2233
70m	150	225	50	BLD	125	5900	101									Z 2234
71m	BLD	125	75	BLD	100	2500	3									Z 2235
72m	BLD	125	25	BLD	125	60	BLD									Z2236
73m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 49

ASSAYED BY ANALABS FROM 60 TO 75 DATE /1/84 PAGE 5 OF 8

596

Metres	Pb	Zn	Cu	Ag	Ni	As	Sn									SAMPLE NUMBER
142 m	550	2900	75	2	125	190	18									Z 2237
143 m	2225	4800	75	5	125	5400	29									Z 2238
144 m	BLD	100	100	BLD	150	390	BLD									Z 2239
146 m	BLD	125	75	BLD	200	22	BLD									Z 2240
147 m	BLD	100	75	BLD	225	4	BLD									Z 2241
148 m	BLD	75	75	BLD	250	3	BLD									Z 2242
149 m	BLD	175	100	BLD	175	1	BLD									Z 2243
150 m																

42654

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 49

ASSAYED BY ANALABS FROM 135 TO 150 DATE / 1 /84 PAGE 6 OF 8

- 597

Metres	Pb	Zn	Cu	Ag	Ni	As	Sn	SAMPLE NUMBER
150m	BLD	100	100	BLD	200	1	BLD	Z 2244
151m	BLD	150	100	BLD	200	1	BLD	Z 2245
152m	BLD	100	75	BLD	225	20	BLD	Z 2246
153m	BLD	75	200	BLD	125	99	BLD	Z 2247
154 m	BLD	125	75	BLD	125	17	3	Z 2248
155m	BLD	125	25	BLD	150	8	BLD	Z 2249
156m	BLD	125	50	BLD	100	2	BLD	Z 2250
157m	BLD	125	75	BLD	125	4	BLD	Z 2251
158 m	BLD	150	75	BLD	125	2	4	Z 2252
159 m	BLD	150	125	BLD	125	1	BLD	Z 2253
160m	BLD	100	25	BLD	125	3	BLD	Z 2254
161 m	BLD	100	100	BLD	100	100	4	Z 2255
162m	400	2275	150	BLD	125	1600	13	Z 2256
163 m	150	900	125	BLD	125	1400	11	Z 2257
164m	BLD	75	50	BLD	100	78	3	Z 2258
165m								

422655

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 49

ASSAYED BY Analabs FROM 150 TO 165 DATE /1/84 PAGE 7 OF 8

Metres	Pb	Zn	Cu	Ag	Ni	As	Sn									SAMPLE NUMBER
165 m	BLD	75	50	BLD	125	51	3									Z 2259
166 m	BLD	100	25	BLD	125	100	BLD									Z 2260
167 m	25	500	25	BLD	125	210	6									Z 2261
168 m	BLD	100	75	BLD	125	19	BLD									Z 2262
169 m	BLD	100	75	BLD	125	6	BLD									Z 2263
170 m	BLD	75	75	BLD	125	7	BLD									Z 2264
171 m	1075	2700	50	BLD	100	530	11									Z 2265
172 m	2.12%	1.56%	1.55%	11.0	130	7000	55									Z 2266
173 m																

E.O H 184.1m.

165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 49.

ASSAYED BY ANALABS FROM 165 TO 180 DATE /1/84 PAGE 8 OF 8

422656

599

422657

DRILLHOLE LOG

R.B.E. 50

600

422658

RBE 50 : PORTABLE XRF ANALYSER. SN RESULTS.

Depth	Sn	Comment
32	0	
33	0	
34	0	
35	0	
36	0	
37	0	
38	0	
39	0	
40	0	
41	0	
42	0	
41.7	0	41.5–42 quartz v.
43	0	
44	0	
45	0	
46	0	
47	0	
48	0	
49	0	
50	0	
50.3	0	
51.0	0	
52	0	
53	0	
54	0	
55	0	
55.9	0	

Depth	Sn	Comment
56	0	
57	0	
58	0	
59	0	
59.3	0	
59.5	0	quartz veining.
59.9	0	
60.0	0	
61.0	0	
62.0	0	
63.0	0	
64.0	0	
65.10	0	
66.0	0	
67.0	0	
68.0	0	
69.0	0	
70.0	0	
70.5	0	70.5 quartz V
71.0	0	
72.0	0	
73.0	0	
73.9	0	
74.85	0	Pyrite on fracture.
75.0	0	
76.0	0	
77.0	0	
78.0	0	
79.0	0	

Depth	Sn	Comment		SAMPLE NUMBER
79.3	0	pyrite on fracture.	Standards.	
79.6	0		Spec Ck Mt Lindsay	91.48
80	0			99.99
81	0			99.99. 86.08
82	0			79.04.
83	0	pyrite veining semi ∥ core		99.99.
84	0			54.41 79.66.
85	0		RBE 33.	0.42.
86	0			0.31
87	0			
88	0			
88.95.	0		Exe Rop 2	0.08
87.40	0	on pyrite v semi ∥ core		
89	0			
90	0			
91	0		Spec Ck Mt Lindsay	95.83.
92	0			99.99
93	0			48.54
94	0			
95	0			
96	0			
97	0			
98	0			
99	0			
100	0			
101	0			
102	0			
103	0			
104.	0			

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE50

ASSAYED BY O S Thynne FROM 32 TO 104 DATE 8/12/83 PAGE 1 OF 2

601

422659

RBE50 PORTABLE XRF ANALYSER Sn Results.

Depth	Sn	Comment
105	0	
106	0	
107	0	
108	0	
109	0	
110	0	
111	0	
112	0	
113	0	
114	0	
115	0	
116	0	
117	0	
118	0	
119	0	
120	0	
121	0	
121·42	0·14, 0·02	[121·36 – 121·50 pyrite V with qtz magn. 60°∠C 14cm wide
122·10	0	
122·25	0·57	] pyrite V semi massive, minor Aspy. Several qtz & ank/sid bands Vein 35cm wide 122·15 – 122·50.
122·35	0·28 1·25, 0·96	
122·40	1·44, 3·82 5·04	
	0·16, 0·45 (on vein bands)	

Depth	Sn	Comment
123	0	
124	0	
125	0	
125·55	0	
126.	1·4, 0·7	
126·1	0	
127	0	
128	0	
129	0	
128·45	0	
130·0	0	
130·1	0	6mm wide V. Suspected Sn.
131	0	
131·73	0	
132	0	
133	0	
133·45	0	
134	0	
135	0	
135·9	0	
136	0	
136·52	0	] 12cm wide vein, Barren marginal qtz. Inner bands contain Chalcopyrite, aggreg, layered pyrite, minor ASpy. Sn assay results = inner bands.
136·55	1·13	
136·56	0·9	
136·57	1·2	
137–147	0	Every metre on the metre
147·8	0	
148	0	
148·5	0	
149–156	0	

Depth	Sn	Comment.
146	0	146-156 Repeats.
146·64	0	
147·0	0	
147·8	0	
148	0	
148·45	0	
149	0	
150	0	
151	0	
151·85	0	
152	0	
153 –184	0	On metre every metre.
154·45	0	
156·4	0	
158·55	0	
161·55	0	
165·7	0	
167·07	0	
172·45	0	
173·5	0	
178·4	0	

Standards.

	SAMPLE NUMBER
Spec Crk Lindsay	99·99
	80·87
	99·99.
	46·94
Exe Prop No 2.	0·03.
	0·62.
	0·02
Spec Crk Lindsay	77·88
	46·9.
Exe Prop No 2	0·03
	0·06
	0·07
	0·02.
Specimen Crk	99·99
	86·54
	90·55.
	75·21
Exe Prop No 2	0·36
	0·10
	0·60
	0·16
	0·21.

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE50

ASSAYED BY D S Hynna. FROM 105. TO E O H. DATE 9/12/83. PAGE 2. OF 2.

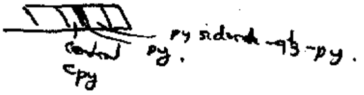
RBE 50

422660

STANDARDS

METRE'S	READING
123	0
124	0
125	0
125·55	0
126	1·40, 0·70
126·1	0
127	0
128	0
128·45	0
129	0
130	0
130·1	0
131	0
131·73	0
132	0
133	0
133·45	0
134	0
135	0
135·9	0
136	0
136·5	0 0 0·9 1·20 1·13]
136·6	0
137	0
138	0
139	0
140	0
141	0
142	0
143	0
144	0
145	0
146	0
147	0
147·8	0
148	0
148·50	0
149	0
150	0
151	0
152	0
153	0

METRES	READING	
154	0	
154·4	0	
155	0	
156	0	
158·9	0	Vein see logs.
157		
158		
159		
160		
161		
162		
163		
164		
165		
166		
167		← Vein Central part of vein
168		
169		
170		
171		
172		
173		
174		
175		
176		
177		
178		
179		
180		
181		
182		
183		



SPEC. CREEK	
80·87	
99·99	
99·99	
~~46·94~~	
77·88	
46·90	

EXE PROP. NO. 2.	
0·02	
0·02	
0·03	
0·06	
0·07	
0·02	

	NBGSO	KBED 2	
METRE'S	READING	METRES	READING
146	0	582	0
146·64	0	583	0
147	0	584	0
147·8	0	585	0
148	0	586	0
148·45	0	587	0
149	0	588	0
150	0	589	0
151	0	590	0
151·85	0	591	0
152	0	592	0
153	0	593	0
154	0	594	0
154·45	0	595	0
155	0	596	0
156	0	597	0
156·4	0	598	0
157	0	599	0
158	0	600	0
158·55	0	601	0
159	0	601·7	0
160	0		
161	0		
161·55	0		
162	0		
163	0		
164	0		
165	0		
165·7	0		
166	0		
167	0		
167·07	0		
168	0		
169	0		
170	0		
171	0		
172	0		
172·45	0		
173	0		
173·5	0		
174	0		
17[illegible]	0		
176	0		
177	0		
178	0		
178·4	0		
179	0		
180	0		
181	0		
182	0		
183	0		
184	0		
End of	HOLE		

STANDARDS

SPECIMAN CREEK

99·99
86·84
90·55

75·21
99·99

EXE PROP NO 2

0·36
0·10
0·60

0·16
0·21

604

PAGE 1 OF 2

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG

422662

SUMMARY SHEET

PROJECT EAST RENISON AREA GAT. East Exe River. DRILLHOLE TYPE Diamond NO RBE 50

CO-ORDS E 373225 E N 5377085 N (approx) DEC^LN 45°m. AZIMUTH 222°m. RL +/- 112

DATE COMMENCED 1/12/83 DATE COMPLETED 10/12/83. DRILLED BY LONGYEAR W Waelkens. DRILL RIG LONGYEAR 38

GEOLOGIST(S) D S THYNNE

SURVEY DATA Hole at 38½°m from RBE49 at 109·7metres. INSTRUMENT EASTMAN CAMERA.

DEPTH	CORRECT DEC^LN	AZIMUTH	DEPTH	CORRECT DEC^LN	AZIMUTH
0	45°	222°m.			
94 m	43½°	222°m			
124 m	44	222°m.			
154m	42¼°	221½°m			
184.0	42°	219°m.			

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
0 – 30·6	GLACIAL TILL. BOULDERS OF GRANITE &		
	VOLCANIC PORPHYRIES TO 0·9m Diameter.		
	TRICONED 0-9m Cased HQ to 24m.		
30·6 – 39·3	Dk gy pyritic Carbonaceous shales, Conductive.	BASE OF OXIDATION 32·1m	py 2 to 5%.
			decreases to
39·3 – 52.20	Interbedded dk gy carb siltstones, c lt gy tuffaceous		2 to 3%.
	sandstones. Tuff sandstone beds few, narrow,		
	Bedding 30° to 46°∠C. Shallow angle core		
	fracturing. Associated tensional cavities.		
52·2 – 75·4.	Dk grey porous Carbonaceous siltstones, shales.		
	appear non Conductive. Interbedded c dk grey	Minor Aspy with py in	
	siltstones, shales and Light grey tuffaceous	veins 70·4–70·6, 72·1–72·4m	
	sandstones. Later dominant between 60·4 – 66·7.	Clayey margin to V 64·3–64·9	pyrite b/w 1–2%.
	Bedding swings from 24° → 5° to 38– 60°∠C		
	Qtz stockwork 59·4–59·7, 59·85–60·05m, 64·9–65·7m.		
	72·10–72·4. Later Qtz-Carb. Qtz trend approx 70°∠C		
75·4 – 84	Dk gy Carb siltstones, shales. Subordinate pale	Pyrite veinlets. Conformal	
	gy tuff sandstones. Bedding 16 – 28°∠C.	with bedding - cause lineation.	py 3–5%
	FIRST APPEARANCE OF CALCITE IN CORE 81·65	Characteristic of this unit	
	TENSIONAL Fractures across bedding (sideritic septa)		
84 – 103·25	INTERMITTENT CALC PSAMMITES, CALC PELITES.	Increase in $CaCO_3$ veins.	
	Interbedded with grey Carbonaceous siltstones,	Conformal pyrite in finer	py 3–5%.
	Dk gy porous shales as above and pale gy	grained beds as above, continue.	
	tuff sa. Bedding 40°∠C top, 91–92 at 65–67°∠C.		
	at bottom 35–36°∠C, Shallow ∠ C fracture.		
	dips sim direction to B. $CaCO_3$ Veins 30°∠C.		
103·25 – 121·32.	Dark gy & gy variably Carbonaceous shales, c	py in fine partings as above	
	minor interbedded tuff sa. Weakly calcareous 104·3–105.	continue.	Pyrite 2 – 4%.
	Ball & Pellet structures some sh beds Tensional cavities 30–35°∠C	Bedding 47–50°∠C	

PAGE 2 OF 2

COMSTAFF PROPRIETARY LIMITED
DRILLHOLE LOG
SUMMARY SHEET

422663

PROJECT East Renison AREA GAT East Exe Rivers. DRILLHOLE TYPE Diamond NQ RBESO

CO-ORDS E N DECLN 45°m AZIMUTH 222°m RL

DATE COMMENCED /12/83 DATE COMPLETED 10/12/83. DRILLED BY Longyear W Woelkens DRILL RIG Longyear 38.

GEOLOGIST(S) S Lynne.

SURVEY DATA | INSTRUMENT

DEPTH	CORRECT DECLN	AZIMUTH	DEPTH	CORRECT DECLN	AZIMUTH
0	45°	222°m			
94m	43½°	222°m.			
124m	44	222°m			
154m	42¼°	221½°m			
184.0m	42.	219°m.			

LOG SUMMARY

DEPTH	ROCK TYPE	MINERALISATION	GRADE
121.32 - 122.5	18mm and 35mm wide Veins. Pyrite Centres, quartz margins.	Pyrite. With portable	
	Several bands of siderite Veins 60-65 and 68°∠C	XRF Sn increases downhole	0.02-5.04%.
		through veins.	
122.5 - 124.5.	Dk gy Carbonaceous conductive shales. BoV 38∠	Narrow Veins c̄ Cpy + py 124 –	124.35.
124.5 - 136.5.	Tuffaceous Sandstones, graded beds in part.	No CONFORMAL Py	
	LESS CARBONACEOUS BEDS BELOW 124.5. (Core light gy).	veinlets as above.	
	Narrow Calc PSAMMITES. at 132.32, 133.6. Bedding	20mm wide 60°∠C V c̄ Aspy, Py,	Cpy at 126 c̄ 1.4, 0.7
	60°∠C at 128.12, 50°∠C 128.48. shallows to 19-31°∠C.		
136.5 - 136.62.	12mm wide Qtz-siderite – Chalcopyrite – pyrite – Aspy.	Cpy in middle V 15mm wide	Central Vein c̄ XRF with 1.07% Sn.
136.62 – 171	Predominantly tuffaceous psammites top. below	Tourmaline in veining.	
	148.8 – pale greenish grey siltstones predominate	161.8–162.0, minor 167.08.	
	Calc Psammite. Weak to mod reaction c̄ HCL.	Sphalerite specks in Sid-Calcite	Sp 154.35–154.5
	between 139.25–139.9, 144.5–145.28, 150.4–151.90	vein 154.35–154.5. 39°∠C.	
	159.13 – 162.0 and band at 168.65.		
	andalusite? (spotted schist) between 162.2 – 164.6.	limestone 22°∠C.	
	Some calcite veination. Core generally firm.		
	Bedding 18 to 60°∠C. Some flame structures	EG. 152.25.	
	Chloritic (Basic tuff) 147.8–148.87m. Tourmaline	Veining as above 12°∠C.	
171 – 175.10.	Sediments as above. Minor intermixed GABBRO.	Calcite Veining 5–10%	
	Increase in Calcite veining. Qtz subordinate to calcite.	171.52 12mm W 54°∠C V	c̄ Cpy, Gal, Sp.
	Some chlorite alteration. Increase fracturing.		
	CONTACT AT BOTTOM (TREND APPROX 12–17°∠C).		
175.10 – 184.1	GABBRO, QUART calcite veining with calcite		
	subordinate to quartz between 177.75 – 179.2		
	Gabbro weakly calcareous, chloritic throughout.		
	Veining mainly between 21°∠C and 34°∠C.		

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	9 to 30·6	21·6	2·7	12·5.

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION

0 – 30·6m.

Glacial till. Boulders to + 0·9m diameter.

13 – 15m + 0·5m diameter granite boulder.

15·7 – 16·45 0·75m diameter grey acid porphyry. Hypethere - augite - plagioclase phc.

25·0 – 25·6 Smilar porphyry.

26·0 – 30·6. Several buff to whitish gy quartzite boulders. Well rounded surface. Lim coating.

Boulders in pebbly - Cobbly - sandy matrix.

Tricored HQ 0 – 9m.

HQ core 9 – 15·5m. Cased off.

NQ core 15·5 – 30·6m.

HQ followed down to 24m and cased off. Bottom of glacial 30·6m.

422664

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE50

LOGGED BY D S Skyne FROM 0 TO 30m DATE 6/12/83 PAGE 1 OF 12

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	30·6	2·3	1·05	45
	32·9	1·2	0·6	50
	34·1	2·6	1·0	38
	36·7	0·95	0·65	68
	37·65	1·85	0·65	35
	39·5	1·4	1·4	100
	40·9	1·9	1·4	74
	42·8	1·45	0·95	65
	44·85 to 45·6	1·35	0·95	70

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
31 – 39	30·6 – 39·3 Dk grey carbonaceous pyritic shales. Conductive.	Graphite scheen on some fractures. pyrite as layers on frequent fracture planes. Fresh py below 32·1m.		BASE OF OXIDATION.	pyrite 2 to 5% from 32·1m.	
40 – 45	39·3 – 52·20 Dk gy. carbonaceous siltstones. with interbedded grey, Lt grey tuffaceous sandstones. Siltstones not massive as beds above. tuff sa occur typically as beds 60 to 100mm wide (TW) Sharp contacts. Few narrow tuff sa beds.	dissem pyrite. tends for concentration near fractures. Increase in pyrite below 42·80.		39·7 fracture 15°∠C. adjacent reticulate network qtz. – assoc tensional gashes. vugs. 40·3 Bedding 30°∠C. 41·3 " 46°∠C. 41·5 – 42·0 qtz V. tensional (small vugs - drusy) Shale interwoven. with qtz. Contact sharp at high angle 80°∠C. 45m Bedding 24°∠C.	Below 42·8 dissem py to 2-3%	

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COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE50

LOGGED BY P S Thyne FROM 30 TO 45m DATE 6/12/83 PAGE 2 OF 12

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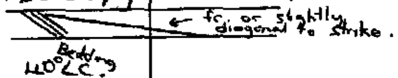
LITHOLOGY

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
		See previous page.		
	45·6	1·4	1·05	75
	47·0	1·2	1·1	92
	48·2	0·9	0.75	83
	49·1	1·1	0·9	82
	50·2	1·0	0·65	65
	51·2	0·9	0·9	100
	52·1	0·75	0·3	40
	52·85	2·25	1·25	56
	55·1	0·9	0·9	100
	56·0	1·5	1·5	100
	57·5	1·4	1·1	78
	58·9 to 60·8	1·9	1·6	84

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
46–52	39·3 – 52·2. See previous page.	pyrite - fined coarse grained crystals impregnated in sa. (sand size).		46 Bedding 36°∠c. 47·6 Bedding and parting 32°∠c. 47·6 – 48·2 Shallow ∠ c fracture. in tuff sa. Dissem py associated. Dip as.	dissem py 2-3%	
				49·8. Bedding 40°∠c. 50·2 " 42°∠c. 51·4 Bedding 38°∠c. here microfracturing offsets beds.		
52–57	52·2 – 57·5. Dk gy psammopelites, siltstones (porous, sooty like texture), interbedded with gy tuff sandstones. 53·80 – 55·1 Dk gy pspel. pyritic - carbonaceous, porous. Some Carbonaceous, porous tuff sa.	porous carb beds ē dissem py.		53·2 Bedding 29°∠c. Core mainly broken. 56·4 Bedding 24°∠c. – swings parallel to parting at less 5°∠c. 57·5 – 58. Tuff sa. layer. At 7°∠c.	Dissem py 1 – 3%	
58–60	57·5 – 60·4. Dk gy siltstones with lt gy interbedded tuff sa. Later. in recovered core less 50mm wide.	pale chlorite assoc ē main V. quartz veined. 30 and 20cm wide semi pervasive qtz V at approx 59·4 – 59·7, 59·85 – 60·05.		Bedding to 26°∠c at 59·7m. Small qtz veins above main and below narrower subordinate V. Cavities with crystal qtz in main qtz V. Veining approximates 70°∠c.	at 60·25m some py on graphite lined fc at 65°∠c. Otherwise absent.	



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SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH R8E 50

LOGGED BY O S Hyne FROM 45 TO 60m. DATE 6 / 12 / 83 PAGE 3 OF 12

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	60·8	1·2	0·55	46
	62·0	2·1	1·0	69
	64·1	3·0	2·4	80
	67·1	1·5	1·25	83
	68·6	1·5	1·5	100
	70·1	2·0	2·0	100
	72·1	1·2	1·05	88
	73·35	1·6	1·3	81
	74·95			

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	see previous page.			50mm wide barren qtz on margin.		
	60·4– 66·7 Lt gy tuffaceous sandstones, Minor, narrow interbedded siltstones.	partly clayey. esp on fracture 64·30 – 64·90. 65·7 Sm cavities, on fr. buff coloured 2ry mineral. Gelatinizes in HCL. - narrow W		64 Bedding 38. 64·9–65·7 quartz stockwork in tuff sa. - brittle fracturing pyrite on fractures.		
	66·7–75·4. Pale grey, Lt greenish gy tuff sandstones interbedded with porous Black shales, dk grey siltstones and intermittent groups of pale cherty siltstone laminae. Dk "sooty" porous carbonaceous beds between 66·7– 67·1 m. 67·5 – 67·8 m. 72·4 –73·8 m. 74·2 – 75·0 m.	Intermittent - brown buff coloured mineral continues. With qtz veining or as distinct veins, wisps - lenses less 5mm wide. With septa. (2ry) (sideritic Carbonate)?		67·2 Bedding 52°∠C. Beds here less 1mm to 18mm wide. 68–68·30 Narrow parting c̄ sid? shallow ∠ C. 68·8–69·7 69·8 Bedding 60°∠C. 70·4–70·6 Qtz V with aggreg of pyrite, Minor Aspy. 71·90 Bedding 55°∠C. 71·75 Bedding 52°∠C. 72·10–72·40 qtz–Carbonate veining. Veins narrow - mainly less 5mm. Reticulate Stockwork. Trend. 35-65°∠C. Minor py - Aspy along margins of V. py 30°∠C near margin Bedding \ ⊂ possible orientation of V.	py overall 1–2%.	

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH RBE50

LOGGED BY D S Hyne FROM 60 TO 75m DATE 6/12/83 PAGE 4 OF 12

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	From 74·95.	1·75	1·75	100
	76·7	1·65	1·45	88
	78·35	2·15	1·9	88
	80·5	1·6	1·6	100
	82·1	3·0	2·87	96
	85·10	2·9	2·9	100
	88·0 to 91·10	3·1	2·88	93.

LITHOLOGY

INTERVAL 76 – 90

DESCRIPTION

75·4 – 90

Dk grey carbonaceous siltstones with subordinate pale grey tuff sandstones.

84 – 84·35. CAL PSAMMITES. tuffaceous.

86·20 – 86·35. CAL PELITES.

ALTERATION

lineation of siltstones marked by closely spaced pyrite veinlets - irregular, en-echelon veinlets, wisps

Between 1 and 5mm apart. Cut by pyrite veins 1 to 2 mm wide throughout.

- 81·65. FIRST APPEARANCE OF CALCITE. narrow to 2mm wide fracture fill veins. With pyrite at start.

? SEE RBE49 FOR CORRELATION

Cal pelites with dissem blebs of pyrite. Increase in calcite and pyrite veination.

GRAPHIC LOG

STRUCTURE

- 75·8 – 76·3 Veinlets of pyrite approx 16–17°∠C. with bedding.

77·25 Bedding and fracture approx 18°∠C. microfracture offset.

77·9 Bedding 28°∠C.

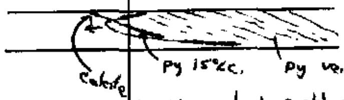
78·85 " 32°∠C.

tensional - qtz (carb) py vein across bedding. at 70°∠C.

79·15. Bedding 28 offset by microfracturing pyrite veins (1-2mm) oblique across at 54–58°∠C.

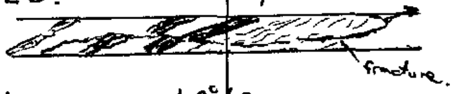
81·9 Bedding 28°∠c pyrite 15°∠C. and conformal calcite 28°∠C.

Relationship



Thus 15°∠c fr across bedding. (at right angles).

82·25 – 82·55. irregular low angle core fracture lined with pyrite and calcite. Bedding 32°∠C. fracture oblique to bedding.



84. Bedding approx 40°∠C.

85·25 " " 26°∠C. pyrite veins at 53°∠c slightly oblique to B orientation.

MINERALISATION

pyrite in veinlets e veins e on fractures 3–5% Increases with depth.

VISUAL PERCENTAGE MINERALISATION

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 50

LOGGED BY O S Shyme FROM 75 TO 90m DATE 7/12/83 PAGE 5 OF 12

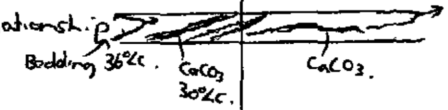
DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	91·10	2·25	2·25	100
	93·35	1·65	1·57	95
	95·0	1·1	0·93	84
	96·1	2·6	2·6	100
	98·7	2·1	1·96	93
	100·8	2·3	2·17	94
	103·1 to 106·1	3·0	2·8	93

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
90 — 101·80	Intermittent Calc Pelites, Calc - Psammites as follows. 89·75 — 90·18 Dk gy Calc Pel. 91·08 — 92·38 Calc Ps top. mainly gy, dk gy Calc pspel. 94·90 — 95·10. Dk gy Calc Pel c̄ lenses of pale gy Calc Ps. 99·60 — 100·0 Calc Pelites, Calc Ps. 101·48 — 101·8. gy Calc Pelites. Beds include grey carbonaceous siltstones some of which are calcareous. Dk gy to black porous bed. 98·50 — 99·25.	Narrow conformal pyrite veinlets continue in fine grained beds. Calcite with pyrite veinlets - fraction sometimes. Some calcite veins. though restricted to Calc beds. To 6mm wide. Similar cross cutting pyrite veins.		91·10 — 92· Bedding and veinlets of calcite ȧ py. 65—67°∠c. 94·1 pyrite V 1—2mm wide 18°∠c. 94·9 — 95·55. Lens of pale sa (ps) in Carb Cal Pe. Minor siderite V (53°∠c) also py in sim direction (28°∠c). 96·3. Bedding ȧ py at 35°∠c. 98·06 — 15. Dissem py in Carb ss. 99·65. Calcite V at 30°∠c. also shallow ∠c fracture. - irregular. Relationship	pyrite overall 3—5% (? syngenetic) veinlets. for most part.	
101·8 — 103·25.	PALE gy tuff sa. (occur interbedded above - but not below.) Interbedded with dk gy siltstones			101·8 — 102·15. Some shale rafts in tuff sa. also pale chert lithic fragments. Minor narrow Calcite / pyrite lens, veins.	py less than above.	
103·25.	See next page.			103·25 — 104·10 — Several cavities. and tensional fractures.		



COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 50

LOGGED BY D S Myrne FROM 90 TO 105m DATE 7/11/83 PAGE 6 OF 12

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	106·1	2·3	2·0	87
	108·4	2·0	2·0	100
	110·4	1·7	1·35	79
	112·1	2·0	1·88	94
	114·1	2·5	2·36	94
	116·8	2·8	2·4	86
	119·4 to 122	2·6	2·6	100

SCALE 1:100 (1cm = 1 m)

LITHOLOGY

DESCRIPTION

103·25 - 121·32

Interbedded dk grey and grey variably carbonaceous shales and siltstones. Minor boudinaged narrow tuff sandstone (pale grey) beds. Weakly calcareous. 104·3–105. Pale cherty ss bed 114·3–114·44.

Weak ball and pellet structures. (sandstone, pale ss lithic fragments in dk gy shale) between.

103·90 – 104·28. (see Col B).
112·60 – 113·25.
115·0 – 115·25.

ALTERATION

narrow conformed pyrite veinlets continue. fine grained

Few cross cutting py veins 1-2mm wide., py on fractures

Minor narrow. Calcite veinlets.

STRUCTURE

105·75. Bedding & Veinlets. 48°∠C.

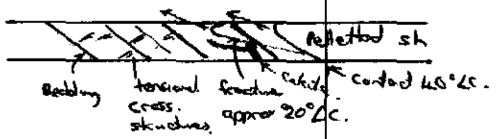
Tensional fracturing with vugs, cavities. more intense than above.

109·1 – 109·4 Fracturing and tensional cavities aligned 30°∠C.

112·6 – 113. alignment of pellets (Bedding?), fracturing tensional cavities 30–35°∠C.

114·35. Banding in pale chert 70°∠C.

114·70 - 115. Bedding 40 to 50°∠C. Start of pelletted layers 40°∠C. Cross structures at 35°∠C.



116. Bedding 48-50°∠C.

119·2 " 47°∠C.

120–121·32 CLEAVAGE/LINEATION. Button like foliation to core in part at 65-70°∠C.

MINERALISATION

pyrite 2-4%

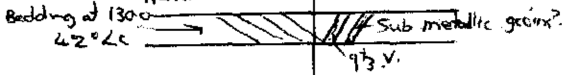
COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE 50

LOGGED BY D S Wynne. FROM 105 TO 120m DATE 8/12/83 PAGE 7 OF 12

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	122.	2.0	1.4	70
	124	3.0	3.0	100
	127	3.05	3.05	100
	130.05	3.05	3.05	100
	133.10 to 136.10	3.0	2.9	97

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
121	To 121.32 See previous page.					
122	121.32-122.5. 121.32 - 121.5. FINE GRAINED PYRITE V. Py Centre 70mm wide, Quartz margins 121.5 - 122.15. SANDSTONE. PARTLY CHLORITIC. 122.15 - 122.50 PYRITE V. c̄ 40mm Top Qtz margin. Several bands of siderite.			MARGINS OF V 60-65°∠C. Contains minor Aspy. Vein at approx 68°∠C.	with Partial XRF indicated Sn in V = 0.02-5.04% SN +1% in lower 10cm of Vein	
123 124	122.5-124.5m. Dk gy Carb, conductive shales, minor tuff at 124.	Segregation into bands.		foliated. 122.6 at 60°∠C. 124.10 Bedding 38°∠C. Cpy+py V conformal here but others cross cutting.	124-124.35 narrow py veins with Chalcopyrite,	
125 126 127 128 129 130 131 132 133 134 135.	124.5-136.5. Tufforeous sandstones, pale. greenish or buff grey siltstones. Graded beds intermittently. Main group of graded beds. 131.90 - 133.10 typical graded beds 20-30mm wide, Compared with above. Only few minor dk gy beds. Transitional. Less Carbonaceous material in core below 124.5. Smooth pale siltstones. 127.25 - 128.10 Narrow Calc Psammites at. 132.32 m (5 to 10mm W) 133.60 m (45mm wide)	-126. Sulphide Vein. No conformal pyrite Veinlets as above several intervals. Ankeritic or sideritic Calcite veination, though sparse, and generally narrow. Intermittent narrow quartz veining, irregular narrow.		125.43-125.57. 150mm wide zone with qtz veination. 20mm wide 60°∠C. Qtz, Vein Conformal c̄ bedding. Strike. 128.12. 60°∠C Bedding. 128.48 50°∠C To 20mm wide qtz-Carbonate V. 130.1 53°∠C. 2 6-7mm wide Veins. 1 qtz; the later. with dk sub met grains. HERE VEINS ACROSS BEDDING.  Bedding at 130.0 42°∠C Sub metallic grains? qtz V. 132 Bedding 31°∠C. 132.5 " 37°∠C. 132.8 " 28°∠C. 133.1 " 19°∠C. 134 " 27°∠C. 134.9 - 136. group Calcite & Calcite qtz veins. Veins less 30mm wide. Irregular to regular. Calcite V dip 30-35°∠C. qtz calcite at 50°∠C. (Trend)	Aspy, py, Cpy Vein. Cpy = 10-15% of Vein. Sn by XRF P A = 1.4, 0.7.	XRF = 0 ASS[illegible]

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED   DRILLHOLE LOG FOR DDH RBE 50

LOGGED BY D S Hynne FROM 120 TO 135m. DATE 9/12/83 PAGE 8 OF 12

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DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
		see previous page.		
	136·1	3·0	3·0	100
	139·1	3·0	3·0	100
	142·1	3·0	3·0	100
	145·1	3·0	3·0	100
	148·1 to 151·1	3·0	3.0	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	See previous page.					
136·5 - 136·62.	QUARTZ, SIDERITE VEINING. DISTINCT BANDS CONTAIN AGGREG. CHALCOPYRITE.			VEIN AT 72°∠C TOP, 55°∠C BOTTOM. PYRITE, ASPY less Aggreg than Chalcopyrite.	Cpy in mid. V band, 15mm wide. less 3% overall. Portal. XRF Sn = 1·07% in central part of vein.	0·9 1·2 1·13
136·62 – 147·8.	Predominantly tuffaceous psammites. Some beds more massive than above. Few interbedded siltstones below, 145·50m. Psammites weakly calcareous between 139·25 – 139·9. (Strong reaction at base) 144·50 – 145·28. Few Calc Psammites - narrow zones marked by yellowish gy Colour. EG Band at 139·9. (Base of above) 142·43 (within psammites)	Sudden Change to less altered, firmer Core. few calcite veinlets.		widest veins to 2 to 3 mm. 140·8 Bedding 18°∠C 142·3 Bedding 30°∠C. 145·34 Bedding 60°∠C. 145·60 " 50°∠C.		
147·8 - 148·87.	Greenish - chloritic altered Dk grey shales - (Basaltic tuff?)	chloritic. Altered sh.		Upper Margin 20-23mm wide qtz veining with pyrite. 23°∠C. 148·4-148·50 BUFF SIDERITIC CALCITE VEIN - MINOR qtz. At 45°∠C. Contains few aggregs of Po.		
	See next page.					

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE50

LOGGED BY D S Hyrne FROM 135m TO 150m DATE 9/12/83 PAGE 9 OF 12

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	151.1	3.0	3.0	100
	154.1	3.0	3.0	100
	157.1	3.0	3.0	100
	160.1	3.0	3.0	100
	163.1 to 166.1	3.0	3.0	100

LITHOLOGY

INTERVAL

151 152 153 154 155 156 157 158 159 160 161 162 163 164 165.

DESCRIPTION

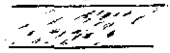
148.87 — 171.0

Pale greenish grey siltstones.
Minor dk grey siltstones.
interbedded with more massive.
tuff sandstones/tuff psammites.
Calc psammites from.
158.4 — 151.90 (weak HCL reaction)
159.13 — 162.0 (weak to mod ").
168.65 Band 80-30mm wide (Strong)

ALTERATION

Calcite veination
On surface light buff colour. Cleans with HCL.

162.20 – 163.4 – fades downwards. Elongated altered specks - Sericitic (after Cordierite/andalusite?) (Metamorphic)
In fine grained beds.



Specks ⬭ elipsoid - lineated. also andalus group. 164.3-164.6.

Tourmaline. in veining 161.8–162.0.
Minor Tourmaline. 167.08.

GRAPHIC LOG

STRUCTURE

149.2 Bedding 40°∠C.

152.25 Flame structure.

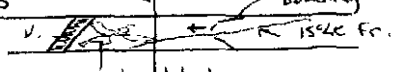
153.80 Bedding 40°∠C. parallel Calcite vein and Calcareous bed. Later 10mm wide.

154.35–154.50. To 50mm wide zone. Main vein distinct. 20mm wide. Contains Sphalerite specks in sideritic. Calcite. Siderite enclosed in qtz. Also pyrite and minor arsenopyrite. Vein at 39°∠C. Dip. similar direction to bedding (conformed)

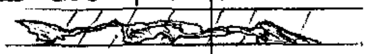
156.30–156.45. Quartz veination (network). Some assoc calcite. Isolated bleb of sphalerite + pyrite

157.0 Bedding 53°∠c.
157.23–157.57. fracture 15-18°∠c
qtz V. 65°∠C.

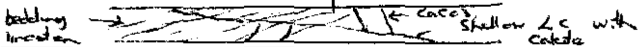
Relationship



158.35 – 158.63. Qtz-calcite Shallow angle. (disappears on same side of core. across bedding.



161.4 Bedding 34°∠C.
161.8 – 162. Tourmaline - Calcite. V at 12°∠C.
162 – 163. Bedding to 22°∠C. also lineation of andalusite. Calcite veination across lineation.



MINERALISATION

Minor Sphalerite at 154.35 – 154.4. Bleb at 156.36.

VISUAL PERCENTAGE MINERALISATION

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE50

LOGGED BY O S Hyne FROM 150 TO 165m DATE 9/12/83 PAGE 10 OF 12

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	166.1			
		3.0	3.0	100
	169.1			
		3.0	3.0	100
	172.1			
		3.0	2.84	95
	175.1			
		1.9	1.9	100
	177.0	Bit Change		
		1.1	1.1	100
	178.1 to 181.1	3.0	3.0	100

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
166–171	see previous page.			165.74 25mm wide Calcite Veining. minor py. Py as central layer. 40°∠C. 167.7, Bedding 32°∠C.		
171–175	171.0 - 175.10 siltstones - psammopelites. possibly several mixed. Gabbro horizons. EG. 171.65-171.75.	Increase in calcite Veining. Less & Subordinate qtz. in some veins. Veining in groups 5–10%. Some chlorite within & adjacent main veins.		Increase fracturing. 171.52 Calcite V. - less 5 to 12mm. wide. 54°∠C. Contains GALENA, minor Chalcopyrite. sphalerite. Main sulphide = pyrite. Shallow ∠ C fracture/parting with graphite on at 171.7. Bedding at 32°∠C. (All Calcite V, parting, bedding dip sim direc 173.1–173.6 Veining and fracturing parallel to core. with main V 25°∠C. later 100mm wide. where veins Join. at 90° to each other. 175.10 Contact. Trend on contact, though not distinct 12-17°∠K		
175–180	175.10 – 184.1 at E.O.H. GABBRO. medium grained.	quartz - calcite (siderite) Veining between 177.75 — 179.20. weakly calcareous throughout, chloritic (propylitisation). pyrite concentrated near top part of vein zone & adjacent.		177.76 Vein 22°∠C 3-5mm wide. with py. Start of V zone Underlain by 80mm wide zone with dissem py, - Small veins with fine tourmaline, - also calcite alteration 177.92 – 178.45. MULTIPLE VEINING. Top V 34°∠C. Lower contact 24°∠C. predom qtz. 178.64–179.20 3 groups Calcite veins to 55mm wide.		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE50

LOGGED BY D S Hynes FROM 165 TO 180m DATE 11/12/83 PAGE 11 OF 12.

DRILL ADVANCE

LITHOLOGY

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					181				Core firm. Gabbro becomes more massive (less fractured) and differentiated below 179·2		
	181·1	3·0	2·91	97.	182 183 184	Gabbro. Slightly calcareous. Medium grained.	Small narrow veins - calcite.		182·2 Fracture with calcite. 21°∠ C.		
	184·1										

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED **DRILLHOLE LOG FOR** DDH RBE50

LOGGED BY FROM 180 TO 184·1m DATE 11/12/83 PAGE 12 OF 12.

all split Core.
No sampling 0-32, 139-171 179-184 1m.

Metres	Pb	Zn	Cu	Ag	Ni	As	Sn	SAMPLE NUMBER
32m	35	115	115	BLD	55	13	17	Z 2267
34m	20	60	130	BLD	55	13	BLD	Z 2268
36m	30	45	110	0.5	60	6	BLD	Z 2269
38m	BLD	100	85	BLD	95	99	BLD	Z 2270
40m	BLD	135	95	0.5	115	690	5	Z 2271
41m	20	185	190	1.0	125	500	50	Z 2272
42m	10	155	105	BLD	125	3900	18	Z 2273
43m	5	220	155	BLD	150	58	6	Z 2274
45m								

COMSTAFF PROPRIETARY LIMITED **ASSAY RESULT SHEET FOR** DDH RBE 50

ASSAYED BY ANALABS FROM 30 TO 45 DATE 11/84 PAGE 1 OF 9

Metres	Pb	Zn	Cu	Ag	Ni	As	Sn	SAMPLE NUMBER
45m	BLD	380	125	BLD	180	21	8	Z 2275
46m	BLD	325	115	BLD	190	15	BLD	Z 2276
47m	BLD	190	120	BLD	130	7	BLD	Z 2277
48m	BLD	175	90	BLD	130	17	BLD	Z 2278
49m	BLD	250	70	BLD	155	30	BLD	Z 2279
50m	BLD	275	90	BLD	145	20	3	Z 2280
52m	BLD	250	70	BLD	170	33	BLD	Z 2281
55m	BLD	215	125	BLD	160	28	3	Z 2282
56m	BLD	145	140	BLD	115	7	BLD	Z 2283
57m	BLD	175	135	BLD	125	21	BLD	Z 2284
59m	BLD	110	50	0.5	120	3800	BLD	Z 2285
60m								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 50

ASSAYED BY ANALABS FROM 45 TO 60 DATE /1/84 PAGE 2 OF 9

Metres	Pb	Zn	Cu	Ag	Ni	As	Sn									SAMPLE NUMBER
60 m	BLD	210	75	BLD	130	540	7									Z 2286
62 m	BLD	330	90	BLD	160	16	BLD									Z 2287
64 m	BLD	155	110	BLD	135	18	BLD									Z 2288
66 m	5	180	135	BLD	145	19	BLD									Z 2289
67 m	BLD	140	90	BLD	115	920	BLD									Z 2290
69 m	BLD	75	80	1.0	120	6000	4									Z 2291
70 m	20	155	90	1.0	105	9800	7									Z 2292
71 m	BLD	215	100	BLD	140	480	8									Z 2293
72 m	BLD	100	100	1.0	125	2700	3									Z 2294
73 m	BLD	160	90	BLD	125	33	4									Z 2295
75 m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 50

ASSAYED BY ANALABS FROM 60 TO 75 DATE /1/84 PAGE 3 OF 9

Metres	Pb	Zn	Cu	Ag	Ni	As	Sn								SAMPLE NUMBER
75 m	BLD	165	105	BLD	105	12	BLD								Z 2296
76 m	BLD	160	105	BLD	115	6	BLD								Z 2297
77 m	BLD	170	70	BLD	120	21	BLD								Z 2298
78 m	BLD	165	95	BLD	125	6	BLD								Z 2299
79 m	5	240	105	BLD	140	10	BLD								Z 2300
80 m	BLD	145	115	BLD	130	6	BLD								Z 2501
82 m	BLD	135	105	BLD	120	10	BLD								Z 2302
83 m	BLD	115	130	BLD	130	3	BLD								Z 2303
84 m	5	115	80	BLD	140	20	BLD								Z 2304
85 m	20	165	120	BLD	110	5	BLD								Z 2305
86 m	5	115	105	BLD	100	11	BLD								Z 2306
87 m	5	105	160	BLD	135	6	BLD								Z 2307
88 m	100	10	95	BLD	100	12	BLD								Z 2308
89 m	95	10	80	BLD	100	16	BLD								Z 2309
90 m															

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 50

ASSAYED BY ANALABS FROM 75 TO 90 DATE 11/84 PAGE 4 OF 9

622

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn	SAMPLE NUMBER
90m	100	15	105	BLD	90	7	BLD	Z 2310
91m	90	10	90	BLD	95	14	BLD	Z 2311
92m	105	15	260	BLD	105	25	BLD	Z 2312
93m	100	20	140	BLD	90	23	4	Z 2313
94m	120	10	125	BLD	110	14	BLD	Z 2314
95m	105	10	120	BLD	105	10	BLD	Z 2315
96m	85	10	160	BLD	115	20	BLD	Z 2316
97m	100	5	150	BLD	120	23	BLD	Z 2317
98m	95	5	140	BLD	115	25	BLD	Z 2318
99m	90	5	130	BLD	100	19	5	Z 2319
100m	140	10	140	BLD	110	6	BLD	Z 2320
101m	95	10	145	BLD	110	14	BLD	Z 2321
102m	85	10	150	BLD	115	32	BLD	Z 2322
103m	120	15	130	BLD	105	33	24	Z 2323
105m								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 50

ASSAYED BY ANALABS FROM 90 TO 105 DATE /1/84 PAGE 5 OF 9

422680

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn	SAMPLE NUMBER
105 m	115	15	125	BLD	105	17	BLD	Z 2324
106 m	115	40	240	BLD	100	14	BLD	Z 2325
107 m	105	45	220	BLD	105	20	BLD	Z 2326
108 m	105	40	185	BLD	100	31	4	Z 2327
109 m	155	30	435	BLD	105	29	90	Z 2328
110 m	620	10	610	BLD	100	52	81	Z 2329
111 m	90	15	160	BLD	100	32	6	Z 2330
112 m	100	30	150	BLD	95	14	3	Z 2331
113 m	95	20	110	BLD	105	25	3	Z 2332
114 m	105	20	110	BLD	95	29	BLD	Z 2333
115 m	110	10	110	BLD	105	21	3	Z 2334
116 m	105	5	100	BLD	110	63	3	Z 2335
117 m	90	10	105	BLD	110	32	BLD	Z 2336
118 m	95	15	90	BLD	105	25	BLD	Z 2337
119 m	100	10	80	BLD	100	30	BLD	Z 2338
120 m								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 50

ASSAYED BY ANALABS FROM 105 TO 120 DATE 1/84 PAGE 6 OF 9

624

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn									SAMPLE NUMBER
120 m	105	15	85	BLD	100	31	10									Z 2339
121 m	445	5	125	BLD	155	1300	564									Z 2340
122 m	645	150	195	3.0	115	3500	8650									Z 2341
123 m	210	5	115	BLD	145	120	1260									Z 2342
125 m	65	5	125	BLD	125	580	17									Z 2343
126 m	2150	45	210	4.5	120	6500	340									Z 2344
127 m	75	BLD	110	BLD	95	37	BLD									Z 2345
128 m	80	5	110	BLD	110	54	9									Z 2346
129 m	85	BLD	120	BLD	125	63	BLD									Z 2347
130 m	90	5	130	BLD	150	54	3									Z 2348
131 m	55	5	120	BLD	150	1350	6									Z 2349
132 m	90	10	175	BLD	135	32	BLD									Z 2350
133 m	80	5	155	BLD	120	13	BLD									Z 2351
134 m	65	10	155	BLD	130	31	11									Z 2352
135 m																

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COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 50

ASSAYED BY ANALABS FROM 120 TO 135 DATE 1/1/84 PAGE 7 OF 9

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn									SAMPLE NUMBER
135 m	90	10	140	BLD	140	460	227									Z 2353
136 m	910	10	165	BLD	140	3000	1550									Z 2354
137 m	50	5	155	BLD	145	54	8									Z 2355
138 m	75	5	155	BLD	135	20	4									Z 2356
139 m																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 50

ASSAYED BY ANALABS FROM 135 TO 150 DATE /1/84 PAGE 8 OF 9

Metres	Cu	Pb	Zn	Ag	Ni	As	Sn	SAMPLE NUMBER
171 m	150	1350	280	2.0	135	103	26	Z 2357
172 m	110	5	110	BLD	100	76	7	Z 2358
173 m	45	140	800	BLD	110	20	BLD	Z 2359
174 m	135	30	350	BLD	100	26	9	Z 2360
175 m	285	15	220	BLD	95	24	BLD	Z 2361
176 m	290	BLD	115	BLD	90	29	4	Z 2362
177 m	55	50	165	BLD	90	370	27	Z 2363
178 m	460	2150	1700	4.5	110	4200	39	Z 2364
179 m			E.O.H	184.1m.				

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 50

ASSAYED BY ANALABS FROM 165 TO 179 m DATE / 1 / 84 PAGE 9 OF 9