

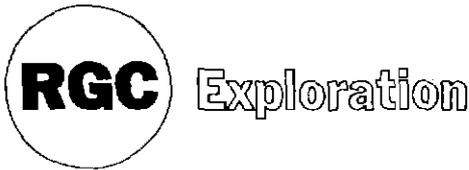
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ANNUAL REPORT-EL 5/96
WHITE SPUR-RGC EXPL
M VICARY

Vol 1 of 3

ACN 001 426 946



ANNUAL REPORT
MARCH 1997 - MARCH 1998

TASMANIAN BASE METALS PROJECT
EL 5/96

WHITE SPUR

Vol 1 of 3

Text and Plans

SEARCHED	INDEXED
SERIALIZED	FILED
EL5/96	
23 MAR 1998	
See folio 18	

HELD BY: RENISON LIMITED

MANAGER & OPERATOR: RGC EXPLORATION PTY LTD

MICROFILMED
FICHE No. 014663-76

AUTHOR(s): Michael Vicary

19 March, 1998

PROSPECTS: White Spur, Anneliese

MAP SHEETS:

**1:25,000: Dundas
Oceana**

1:100,000: Spohla

GEOGRAPHIC COORDS

**Min East: 375 000 mE
Min North: 5358 000 mN**

**Max East: 379 000 mE
Max North: 5364 000 mN**

COMMODITY(s): Zn, Pb, Cu, Au, Ag

KEY WORDS: White Spur Formation, Central Volcanic Sequence, Sulphide clast bearing mass flow deposits, Rosebery -Hercules ore horizon.

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ANNUAL REPORT-EL 5/96
WHITE SPUR-RGC EXPL.
M VICARY Vol 1 of 3

SUMMARY

The White Spur EL 5/96 was obtained for its potential to host volcanic hosted massive sulphide mineralisation. It is located 2.5 kilometres south of the recently reopened deposit at Hercules and 10.5 kilometres south of the Rosebery deposit. Both these deposits are hosted in the upper parts of the Central Volcanic Sequence close to the contact with the overlying White Spur Formation, a sequence of interbedded massflows and black siltstones. Clasts of massive sulphide are present in the basal parts of the White Spur Formation and are considered to be eroded fragments of local sulphide accumulations carried down slope by mass flows. The contact between the Central Volcanic Sequence - White Spur Formation can be traced from the Hercules Mine south into the White Spur EL until it intersects the North Henty Fault, a major regional structure. The exploration to date has concentrated on mapping the Central Volcanics Sequence - White Spur Formation contact with the aim of locating significant alteration zones near the contact.

Exploration from March 1997 to March 1998 centred on the construction of a fence of diamond drill holes aimed at testing the strike length of the White Spur Formation - Central Volcanics Sequence contact at about 300 to 400m below the surface. The holes were spaced between 800m to 1000m apart. A series of ground geophysical surveys (CSAMT, VLF and Ground Magnetics) were also completed over the White Spur Formation - Central Volcanics Sequence contact.

A significant alteration zone was located at the White Spur Formation - Central Volcanic Sequence contact in WSP5 and returned assay of 17m at 0.77% Zn and 0.4% Pb. A subsequent DHEM survey of WSP5 located an off-hole conductor which was coincident with a CSAMT and DIGHEM anomaly. A sulphur and lead isotope study has shown that WSP5 intersection is consistent with the results of studies from the outer margins of typical VHMS footwall stringer system about 500m from the ore.

Drilling along strike and down dip of this zone has failed to locate a high grade zone of mineralisation however recent DHEM surveys suggest a off hole conductor is present down dip of the existing drilling. It is uncertain whether WSP10 intersected this feature.

Future exploration at White Spur should involve the following:-

- 1) Further geological and geophysical investigations of the WSP5 intersection,
- 2) Field checking of several unexplained CSAMT anomalies, and
- 3) Evaluation of the Jones Creek area.

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1. INTRODUCTION

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EL 5/96 - White Spur is held by Renison Limited and is explored by RGC Exploration, both wholly owned subsidiaries of RGC Limited. The licence is located in western Tasmania approximately 20 kilometres north of Queenstown, and is situated on the south western flanks of Mount Read (Figure 1). It was granted on April 5, 1996 and has an area of 19 square kilometres.

The major access to the EL is via Howards Road. Howards Road is accessed via the Anthony Road, approximately 14 kilometres east of the junction with the Zeehan Highway. Access within the EL is provided by a series of old logging tracks and the new HEC road which follows a major canal.

The vegetation of the EL is quite varied with Myrtle and King Billy Pine rainforest dominating in the higher elevated regions and also occurs in steep sided gullies. In areas covered by glacial deposits and frequently burnt out areas the rainforest has degenerated into Tea Tree and Button Grass scrub.

The White Spur EL 5/96 was obtained for its potential to host volcanic hosted massive sulphide mineralisation. It is located 2.5 kilometres south of the recently reopened deposit at Hercules and 10.5 kilometres south of the Rosebery deposit (Figure 2). Both these deposits are hosted in the upper parts of the Central Volcanic Sequence close to the contact with the overlying White Spur Formation, a sequence of interbedded massflows and black siltstones. Clasts of massive sulphide are present in the basal parts of the White Spur Formation and are considered to be eroded fragments of local sulphide accumulations carried down slope by mass flows. The contact between the Central Volcanic Sequence - White Spur Formation can be traced from the Hercules Mine south into the White Spur EL until it intersects the North Henty Fault, a major regional structure.

In the first year of tenure a small zone (~10m wide) of massive pyrite lenses within intensely sericite altered dacitic pumiceous volcanoclastic sandstones was located near the top of the Central Volcanic Sequence close to the intersection of the Central Volcanics Sequence - White Spur Formation contact with the North Henty Fault. This area has been called the Anneliese Prospect and has been the focus for the first phase of detailed systematic exploration. A 7.1 line kilometre grid was established and a soil and rock chip sampling program completed. A variety of geophysical techniques have tested the along strike extensions of the mineralisation. These include:- Ground Magnetics, Self Potential, Induced Polarisation, and VLF-EM. A 307m diamond drill hole ANNE001 tested the down dip extension of the mineralisation and a DHEM survey performed. The results suggest that the mineralisation at the Anneliese Prospect is uneconomic and has limited strike extension.

Exploration from March 1997 to March 1998 centred on the construction of a fence of diamond drill holes aimed at testing the White Spur Formation - Central Volcanics Sequence about 300 to 400m below the surface. The holes were spaced between 800m to 1000m apart. A series of ground geophysical surveys (CSAMT, VLF and Ground Magnetics) were completed over the strike extent of the White Spur Formation - Central Volcanics Sequence contact.

A zone of sericite-pyrite alteration was intersected at the White Spur Formation - Central Volcanics Sequence contact in WSP5. It returned an anomalous assay of 17m at 0.77% Zn and 0.4% Pb. This intersection was subsequently followed up by four additional close spaced holes aimed at testing the along strike and down dip potential. The results were not spectacular and structural complications down grade the potential of this zone. A series of DHEM surveys recently completed (but not reported here) indicate the presence of a possible conductor at depth. The source of this anomaly is unknown. Further work is recommended at this prospect.

This report summarises the exploration completed in the second year of tenure.

2. TENURE

The EL comprises: Crown Land (Deferred Forest Land)
Land Vested in HEC (105 ha)
Mt Dundas RAP
Mt Read RAP



Figure 1. White Spur Location Plan

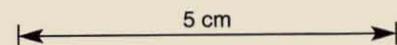
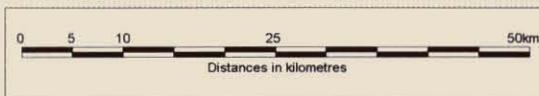
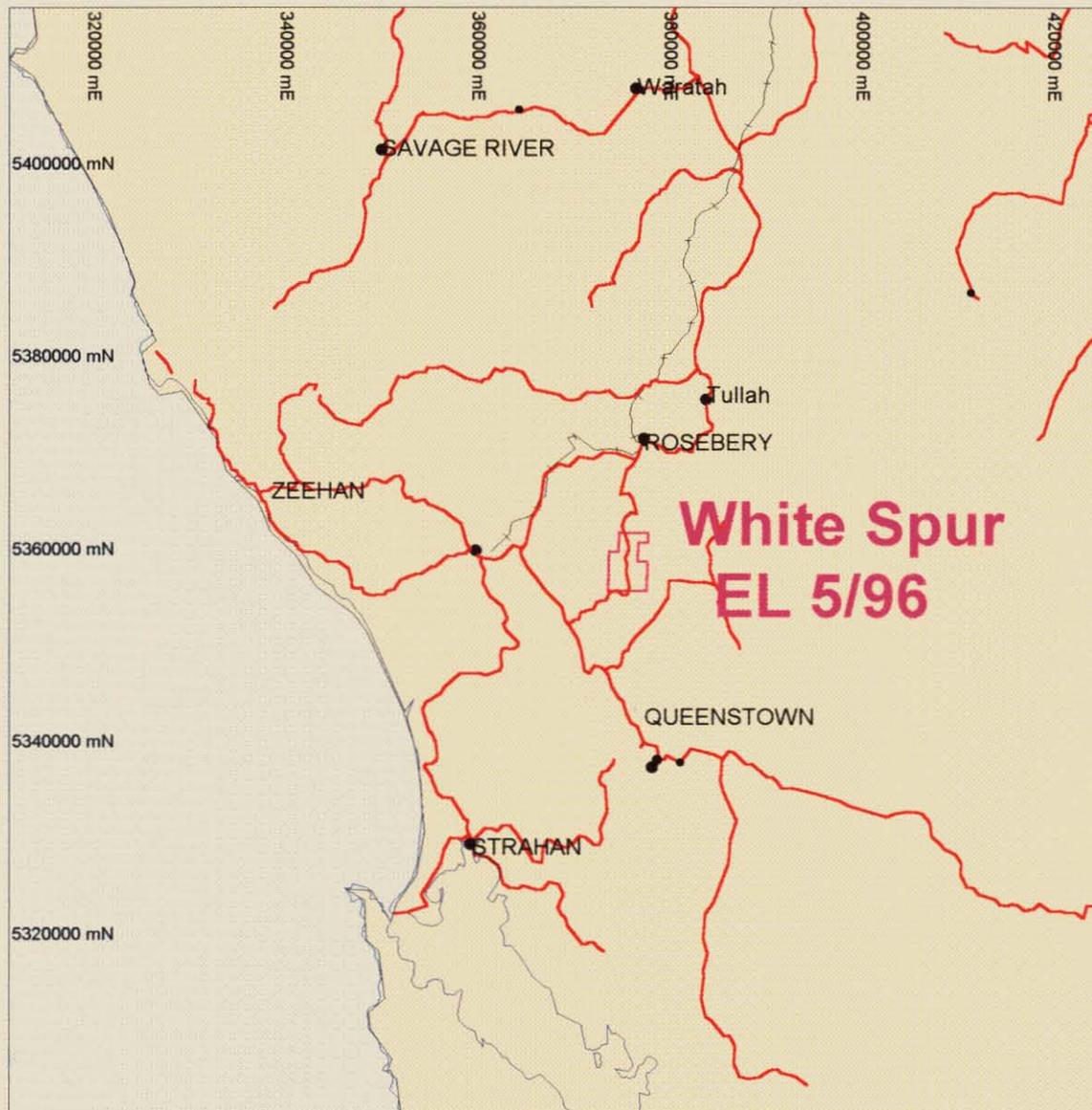
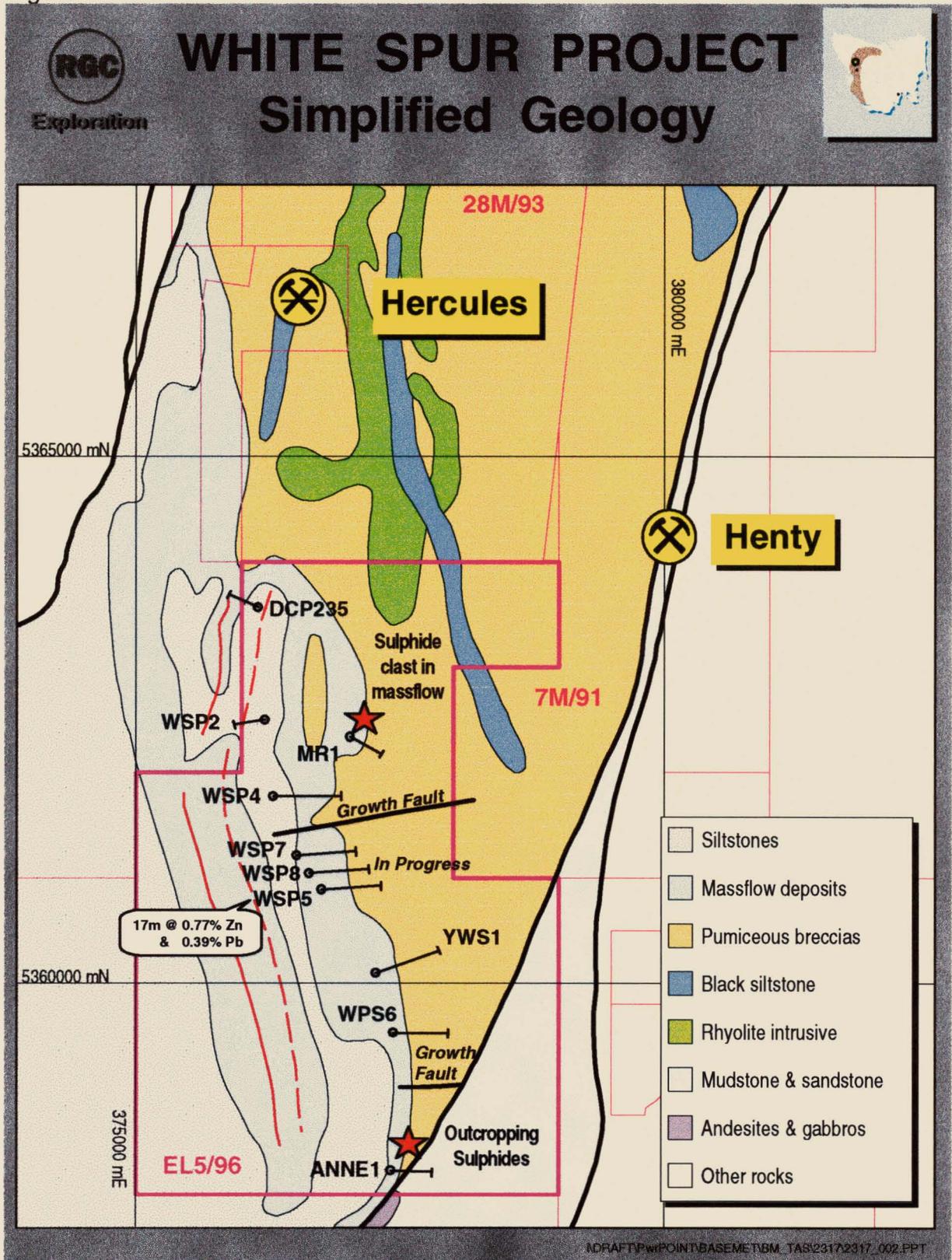


Figure 2



3. EXPLORATION MODEL

The current exploration model used in the Mount Read Volcanics is based on the recognition of several distinctive characteristic features of volcanic hosted massive sulphide deposits (Figure 3). These include:-

- occurrence of VHMS deposits in clusters along favourable horizons,
- spatial control of synvolcanic growth faults,
- distinctive zoned and asymmetric footwall alteration zones, and
- chemical sediments (exhalites) and sulphide clast rich mass flow units at the favourable horizon.

The initial phase of an exploration program is to define the favourable mineralised horizon. A systematic program of detailed geological mapping and logging of any existing core is performed with emphasis on the delineating potential target areas which are considered to have the greatest possibility for an economic grade mineral discovery.

The target areas identified in Phase 1 are prioritised and systematically drilled in Phase 2 of the program. A nominal drill spacing of 800m to 1000m along the favourable horizon is used to provide maximum geological information. Where significant mineralisation or alteration is intersected the spacing between adjacent drill holes is reduced. In areas that have been covered by surficial geophysical surveys (eg, IP) it is considered that the upper 200m of the bedrock have been adequately explored and drill holes generally target the favourable horizon about 300 to 350m down dip of the surface. It is hoped that any off hole conductors at depths greater than 200m will be found by routine DHEM surveying. Thus each drill hole in this phase of the program will test a volume of rock and will provide maximum geological information.

Specific geochemical and geophysical techniques are employed in Phase 3 of the program to determine the proximity to the mineralisation system.

Advanced exploration targets are rigorously tested by drilling in Phase 4 of the exploration program.

The exploration program depends entirely on the quality of the targets generated. Once a target worthy of advanced testing has been identified additional regional exploration targets are assessed. In this way a project could have several Phase 1 and Phase 4 targets that are simultaneously explored.

4. PREVIOUS EXPLORATION IN THE WHITE SPUR AREA

The previous exploration in the White spur area prior to March 1996 is fully discussed in Vicary, 1997.

In the period March 1996 - March 1997 the work completed by RGC Exploration in EL 5/96 - White Spur was as followed:-

- 1) Geological mapping the EL at 1:5000,
- 2) Relogging of several old diamond drill holes,
- 3) 7.1 kilometres of grid cut at the Anneliese Prospect,
- 4) Geological Mapping of the Grid at 1:1000,
- 5) 128 Soil samples were analysed by ICP, XRF and NAA,
- 6) 38 Rock chip samples were analysed by ICP, XRF, NAA and/or AAS
- 7) 5 samples analysed for S and Pb isotopes
- 8) A 306.6m drill hole (ANNE001) was drilled at the Anneliese Prospect.
- 9) 34 split core samples from ANNE001 were analysed.
- 10) Ground Magnetics, VLF-EM, and IP Surveys at the Anneliese Prospect.
- 11) Down hole EM Survey of drill hole ANNE001.

5. WORK COMPLETED

In the period March 1997 - March 1998 the work completed in EL 5/96 - White Spur includes the following:-

- 1) Construction of a 20.7 line km grid over the EL,
- 2) 1:5000 geological mapping over the grid,
- 3) Grid based CSAMT, ground magnetics and VLF-EM surveys,
- 4) 46 rock chips were assayed by AAS, NAA and XRF
- 5) 3 samples were assayed for Pb isotopes,
- 6) 10 samples were assayed for S isotopes,
- 7) 12 samples were assayed for O isotopes, whole rock analysis and quantitative XRD,
- 8) 445 split core samples assayed by AAS, NAA and XRF
- 9) 9 diamond drill holes and one wedge totalling 4087.6m were completed.
- 10) Several holes were surveyed by DHEM,
- 11) Historical geophysical data was reprocessed,
- 12) Three reviews of the project were made by consultants,
- 13) Magnetic susceptibility measurements were made on all drill core,

6. RESULTS

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6.1 GEOLOGICAL MAPPING

6.1.1 Stratigraphy

A new grid (20.7 line km) was established over the White Spur area to aid access for geological mapping and several geophysical surveys.

The grid was mapped at 1:5000 scale. Outcrop geology is presented on Plans 1 and 2. The geological interpretation is presented on Plans 3 and 4.

Nine sedimentary lithofacies have been recognised as mappable units in the White Spur Formation. They are:-

- a) Coarse lithic rich volcanoclastic conglomerate (Cymf, Cymfs)
- b) Medium - fine grained volcanoclastic sandstones (Cym, Cys),
- c) Ashy volcanoclastic siltstones (Cya),
- d) Black pyritic siltstones (Cyss),
- e) Crystal rich volcanoclastic sandstones (Cyx),
- f) Micaceous rich volcanoclastic sediments (greywacke and lithicwacke - Cyg).

The coarse lithic rich volcanoclastic conglomerates display sedimentary features which suggest deposition by mass flow processes. They commonly have lithic rich bases and grade upwards into the medium - fine grained volcanoclastic sandstone and ashy volcanoclastic siltstone lithofacies. The crystal rich volcanoclastic sandstone lithofacies is characterised by abundant broken and rounded quartz and feldspar crystals and possibly represent the reworked equivalent of a discrete volcanic eruption. It forms an important stratigraphic marker horizon in the White Spur Formation (WSF). Black pyritic siltstones and micaceous bearing sediments represent a change to quieter deposition conditions and mark an input of metamorphic detritus into the basin. Some of the lithicwacke and greywacke units possibly contained clasts from a mixed volcanic and metamorphic provenance.

The internal stratigraphy of the White Spur Formation is quite complex(see Plan 5). This is due to complex interfingering between lithofacies and the lensoidal nature of the individual units, especially the massflow units. There are pronounced along strike facies changes to the basal White Spur Formation from the north of the EL to the south. To the north of 5362200mN the basal unit of the White Spur Formation consists of a lithic rich massflow which grades progressively upwards into an ashy volcanoclastic siltstone. The lensoidal nature of the unit probably reflects the influence of a channelled palaeosurface on to which the unit was deposited. In areas away from the channel the finer upper parts of the deposit conformably over the Central Volcanic Sequence.

In the south of the EL (eg 5360000mN) the nature of the basal White Spur Formation changes contains an increased proportion of black siltstone horizons and massflow deposits typically have a higher abundance of black siltstone intraclasts and a high proportion of black siltstone in the matrix. The changes within the basal White Spur Formation from north to south are attributed changes in the environment of deposition reflecting deposition in a small fault controlled subgraben. The lithofacies present to the north of 5362200mN reflect a more proximal volcanic setting with

abundant juvenile volcanic detritus being shed from adjacent sources and transported down slope via mass flows. To the south of this northing the increased abundance of black siltstone reflects deposition in a quieter more distal environment with a mixed volcanic - metamorphic provenance. The coarse lithic rich units are also deposited as mass flows but in contrast to the proximal mass flows they contain abundant intrabasinal clasts.

The Cyx sub-member consists of abundant volcanic derived quartz and feldspar crystals. It is a graded unit and commonly has a coarse lithic rich base with many rafts of black siltstone, the upper parts of unit A. Unlike the mass flow deposits described above this unit shows little facies or lithological change along strike. It was formed by a discrete crystal rich pyroclastic eruption. The crystal fragments were rapidly transported into the basin via down slope movement of mass flows and hence record a unique phase of volcanism. This unit is laterally extensive throughout the mapped area and forms a useful marker horizon. It is analogous to one of the key facies horizons identified by McPhie and Allen, 1992.

North of the White Spur EL, two economic volcanoclastic hosted massive sulphide deposits, Rosebery and Hercules, are hosted in the upper parts of the Central Volcanic Sequence close to the contact with the overlying White Spur Formation. Recent studies (eg. Khin Zaw and Large, 1992) have shown that by sub-seafloor hydrothermal alteration/replacement of permeable pumiceous mass flow deposits.

Clasts of sulphide have been identified in the basal mass flow deposits of the White Spur Formation (Cymfs) to the north of 5362200mN. These clasts are considered to have been derived from the erosion of the sulphide deposits by down slope mass-flow movements. To the south of the major growth fault the Cymfs unit occupies a different stratigraphic position and overlies a thick sequence of black siltstones, mass flow breccias and volcanoclastic sediments. It is the first stratigraphic unit in the White Spur Formation that can be correlated outside of the sub-basin.

Feldspar phyric dacitic pumiceous volcanoclastic sandstone or breccia is the dominant lithofacies of the Central Volcanic Sequence (CVS). This unit contains abundant relatively uncompact tube pumice clasts.

Coherent feldspar phyric rhyolite/dacite forms a relatively minor lithofacies and has only been recognised in drill holes WSP5, WSP7 and WSP8 where they are intimately associated with , and superficially resemble pumice breccias. The contacts between the two lithofacies are often diffuse and obscure. In detail the coherent lithofacies is characterised by the absence of readily identified pumice and the presence of lenticular agate and carbonate filled amygdalae up to 5cm in length. The groundmass may be perlitic and have a streaky banding possibly due to flow banding. The coherent lithofacies has been described by Rod Allen in more detail in Appendix 14. He suggests that the coherent lithofacies represents an intrusion of a degassed magma into a co-magmatic pumice breccia just after the pyroclastic eruption. An alternative explanation for the textures observed in the coherent lithofacies is that they represent more densely welded parts of the pumice breccia forming eruption. Such units will have undergone a higher degree of devitrification and possible vapour phase crystallisation.

Massive pyrite lenses have been located in the south of the EL at the Anneliese Prospect. The mineralisation is hosted in intensely sericite altered Central Volcanic Sequence close to the White Spur Formation contact. The deposit is close to the intersection of the contact with the North Henty Fault which may have acted as a fluid conduit during mineralisation. A zone of sericite - pyrite alteration was located in the upper parts of the Central Volcanic Sequence to the south of the sub-basin defining growth fault. Drill hole WSP5 intersected this horizon and returned an anomalous intersection of 17m at 0.77% Zn and 0.4%Pb.

Several coherent to brecciated quartz - feldspar - biotite phyric rhyolite intrusive bodies have been identified. These occur at numerous stratigraphic horizons within both the Central Volcanic Sequence and White Spur Formation. A rhyolite body exposed in the canal and in drill holes YWS1, WSP6 and WSP9 occurs close to the Central Volcanic Sequence - White Spur Formation contact. It displays upper and lower peperitic margins which suggest intrusion of the magma into soft unconsolidated sediment.

The rhyolite bodies in the White Spur Formation are confined to the sub-basin. The bodies are partly extrusive and partly intrusive and provided juvenile clasts to mass flows deposits in the upper part of the sub-basin sequence below the Cymfs marker.

A feldspar phyric dacitic intrusive body (Cps) has been identified in the north of the EL. This is commonly spherulitic and may be flow banded. It may be similar to the coherent dacites reported in drill holes WSP5, WSP7 and WSP8.

Thin mafic dykes/sills (Cb) (generally <5m wide) are common within the Central Volcanic Sequence in the eastern part of the EL. When weathered they appear as fine grained limonitic clays. They are commonly chloritic when fresh.

Pleistocene glacial deposits, consisting predominantly of Cambrian volcanic and Owen derived clasts are common throughout the EL. Jurassic dolerite is a common clast type on the eastern slopes of Mt Dundas.

6.1.2 Structure

To the north of 5362000mN, the White Spur Formation is characterised by relatively open doubly plunging anticlines and synclines with a fold hinge spacing of between 300 and 400m. The fold hinges are truncated by a NW trending fault at about 376600mE, 5362000mN.

To the south of the major growth fault (377000mE, 5361770mN) the style of folding changes and in contrast to the relatively open folds described above the folds within the White Spur Formation are much tighter with a hinge spacing of about 50m.. Such folds are best displayed by the "parasitic" nature of the Cyx marker horizon which outcrops near the HEC Canal at about 377000mE, 5359500mN.

Immediately south of the major growth fault in the vicinity of drill hole WSP5, the folding in the drill core is very tight and consists of abundant Z and S vergence folds within black siltstone lithologies. Thicker more competent volcanoclastic units are less deformed and do not display such tight folds. The high degree of correlation between

holes WSP7 and WSP9 suggests that little structural repetition of the sequence has occurred.

In the west of the tenement the upper parts of the White Spur Formation are generally more openly folded than the units which define the sub-graben at the base of the White Spur Formation. A major synclinal structure has a faulted out hinge at 3765000mE, 5359500mN. Such faults occur parallel to the regional strike and may represent slays off the Rosebery Fault. Since the stratigraphy of the upper parts of the White Spur Formation is poorly known it is difficult to determine the influence of these structures during basin development.

The change in fold style and volcanic facies across the fault at 377000mE, 5361770mN clearly point to a syn-volcanic growth fault origin for this structure. The large parasitic fold displayed by the Cyx marker horizon to the south of this structure probably formed in response to re-activation of early sub-graben forming normal faults.

The lack of bedding and bedding parallel foliation within the Central Volcanic Sequence prevents detailed assessment of the structure in the east part of the tenement. In general the bedding and bedding parallel foliation is concordant to sub-concordant to the bedding in the overlying White Spur Formation.

Nine diamond drill holes and one wedge totalling 4087.6m were drilled at White Spur in the twelve months from March 1997. Detailed graph logs, collar and survey details and assays for each hole are presented in Appendices 2 to 10. Geological cross sections for the drill hole are presented on Plan 6.

WSP4

Drill Hole WSP4 (Appendix 2) was the first of a series of regional drill holes to test the sub-basin defined by rapid thickening in the lower White Spur Formation. The hole was collared to the north of the growth fault and had the dual purpose of a) locating mineralisation and/or alteration in the upper parts of the Central Volcanic Sequence and b) to provide a detailed stratigraphic through the lower White Spur Formation to aid stratigraphic correlation with future holes that would test the sub-basin to the south.

WSP4 was completed at a depth 400.3m and intersected the White Spur Formation - Central Volcanics Sequence contact at 349m. A summary log is:-

0 - 107.0	Greywacke (Cyg)
107.0 - 142.0	Black siltstone (Cyss)
142.0 - 148.7	Volcaniclastic sandstone & siltstone (Cym)
148.7 - 223.5	Quartz feldspar crystal rich graded massflow (Cyx)
223.5 - 241.2	Interbedded black siltstone & volcaniclastic sandstone (Cym/Cya/Cyss)
241.2 - 307.4	Graded dacitic massflow breccia with sulphide clasts (Cymfs)
307.4 - 344.05	Black siltstone (Cyss)
344.05 - 348.8	Fine to medium grained v/c sst (Cys?/Cya?)
348.8 - 400.3	Feldspar phyric pumice breccia (Ccv)

The most important results from the hole are:-

- 1) A major graded mass flow horizon containing abundant pyrrhotite, sphalerite and galena clasts and altered volcanics was intersected from 237.6 to 307.4m. It also contained a high proportion of sphalerite - galena microveins in the matrix.
- 2) This mass flow is a direct correlate of a mass flow that forms the basal unit of the White Spur Formation in drill hole MR1. However in WSP4 the unit is underlain by a thin sequence of black siltstones before the Central Volcanic Sequence was intersected at 349m. This suggests that the White Spur Formation is transgressive across the Central Volcanics Sequence. It is quite likely that erosion of the Central Volcanics Sequence occurred prior to the deposition of the White Spur Formation.
- 3) The Central Volcanic Sequence from 349 - 400.3m is moderately altered at the contact and alteration decreases away from the contact to be only weakly altered at 400.3m.

Assays results from the sulphide bearing massflow returned variable results with maximum values of 1214 ppm Zn and 1248 ppm Pb.

The alteration zone at the top of the Central Volcanics Sequence generally had less than 50 ppm Pb and Zn.

Drill hole WSP5 (Appendix 3) was designed to test the Central Volcanics Sequence - White Spur Formation contact about 800 meters south of WSP4. The hole was collared stratigraphically below the sulphide bearing mass flow marker horizon and tested an area in which there is pronounced along-strike thickening of the basal White Spur Formation. The hole was completed at 385.5m. A summary log is:-

0 - 92m	Rhyolite intrusive (Cp)
92.0 - 111.0	Medium grained dacitic volcanoclastic sandstone(Cym)
111.0 -152.7	Black pyritic siltstone (Cyss)
152.7 - 206.4	Ashy volcanoclastic siltstone (Cya)
206.4 - 238.5	Black pyritic siltstone (Cyss)
238.5 - 257.6	Interbedded black pyritic siltstone and medium grained dacitic volcanoclastic sandstone (Cyss/Cym)
257.6 - 268	Ashy volcanoclastic siltstone (Cya)
268.0 - 268.6	Fault
268.6 - 274.5	Interbedded black pyritic siltstone and medium grained dacitic volcanoclastic sandstone (Cyss/Cym)
274.5 - 295.1	Ashy volcanoclastic siltstone (Cya)
295.1 - 299.1	Medim grained pumiceous dacitic volcanoclastic sandstone (Ccv)
299.1 - 300.8	Medium grained pumiceous dacitic volcanoclastic sandstone (Ccv)
302.3 - 303.7	Quartz - Carbonate (+5% Sphalerite) Vein
303.7 - 305.1	Medium grained pumiceous dacitic volcanoclastic sandstone (Ccv)
305.1 - 308.4	Brecciated Siltstone (Ccv)
308.4 - 385.5(EOH)	Medium grained pumiceous dacitic volcanoclastic sandstone (Ccv)

The Central Volcanic Sequence was intersected at 295.1m. The rocks at the contact are moderately sericite - chlorite altered with minor carbonate veining. Disseminated and microveins of sphalerite and galena are common from 292 to 309m. This zone returned assays of 17m at 0.77% Zn and 0.39% Pb including 2.5m at 1.6% Zn and 0.78% Pb from 304.5 to 307m.

WSP6

Drill hole WSP6 (Appendix 4) was designed to test the White Spur Formation - Central volcanic sequence contact about 600m south of the Pasmenco drill hole YWS1 (

WSP6 was completed at a depth of 451.6m. A summary log is:-

0 - 62	Massflow with sulphide clasts (Cymfs)
62 - 123	Volcanoclastic sandstone (Cym)
123 - 251	Interbedded massflow and black siltstones (Cymf/Cyss)
251 - 278	Interbedded ashy siltstones and sandstones (Cya/Cym)
278 - 364	Black siltstone (Cyss)
364 - 380	Volcanoclastic sandstone (Cys)
380 - 384	pepperitic rhyolite and ashy siltstone (Cp/Cya)
384 - 451.6	Feldspar rich pumiceous volcanoclastic sandstones (Ccv).

The White Spur Formation - Central Volcanic Sequence contact was intersected at 384m. A weak sericite alteration zone was intersected at the top of the Central Volcanics Sequence from 384 to 395m. This zone returned very low levels of Zn (Av=50 ppm) and Pb (Av=20 ppm). In contrast a chlorite - sericite -albite zone from 395 to 410m averaged about 350 ppm Zn and 155 ppm Pb.

WSP7

Drill hole WSP7 (Appendix 5) was collared about 150m south of the growth fault and is targeted at an off-hole DHEM anomaly detected in WSP5.

A summary log is:-

0 - 91.0	Black siltstone (Cyss)
91.0- 122.9	Ashy siltstone and volcanoclastic sandstone (Cyss/Cym)
122.9 - 143.3	Black siltstone (Cyss)
143.3 - 144.5	Fault Zone and black siltstone (Cyss)
144.5 - 158.0	Feldspar rich volcanoclastic sandstones - sericite - chlorite alteration (Ccv)
158.0 - 482.0	Feldspar rich volcanoclastic sandstones - albite - chlorite alteration (Ccv)
482.0 - 513.0	Feldspar rich volcanoclastic sandstones - albite - ankerite alteration (Ccv)
513.0 - 561.0	Feldspar rich volcanoclastic sandstones - albite - chlorite alteration (Ccv)
561.0 - 598.8	Feldspar rich volcanoclastic sandstones - intense pink albite alteration(Ccv)

Drill hole WSP7 intersected the Central Volcanic Sequence at 144.5m, much shallower than expected. The contact with the overlying White Spur Formation is defined by a 1.2m fault zone. If this fault is the ENE trending growth fault then a southerly dip for this fault is suggested. At present it is uncertain how much displacement has occurred across this structure, however the style of sericite alteration in the Central Volcanic Sequence beneath the fault is similar to the style commonly seen at typical normal unfaulted Central Volcanic Sequence - White Spur Formation contacts(eg WSP4 and WSP5). If it can be shown that this alteration was formed by hydrothermal alteration associated with the WSP5 intersection then the amount of displacement across the structure need not be great. Rare sphalerite - galena microveins are present in the fault zone and in the upper parts of the Central Volcanics Sequence.

Drill hole WSP7 was completed in unaltered Central Volcanic Sequence rocks at 598.7 metres. A zone of albite - ankerite alteration was intersected from 482.0 to 513.0m. This may represent the lateral and possibly distal portion of a zone of intense quartz - sericite alteration which outcrops on a small distinct hill ("The Knob") to the north of the growth fault.

The source of the off hole conductor detected during the DHEM survey of WSP5 remains unexplained.

Assays from WSP7 were unspectacular with three widely spaced intervals returning Zn assays greater than 0.05%. These are from 142 to 144.45 2.45m @ 0.1%, 161 to 164 3.0m @ 0.08% and 178 to 180 2m @ 0.14%. The first intersection was associated with minor sphalerite veining within the faulted White Spur Formation - Central Volcanic Sequence contact. The other two intersections were associated with minor sphalerite veining within the Central Volcanic Sequence

Since WSP7 failed to adequately explain the off hole conductor detected in WSP5, a second hole WSP8 (Appendix 6) was drilled about 150m north west of WSP5. The hole was collared close to the 5361000mN grid line which had a coincident CSAMT and DIGHEM anomaly located at the White Spur Formation - Central Volcanic Sequence contact. A summary log is:-

0 - 8.4	Mass flows (Cymf)
8.4 - 21.1	Black siltstone (Cyss)
21.1 - 47.0	Rhyolite intrusion (Cp)
47.0 - 64.7	Black siltstone (Cyss)
64.7 - 85.2	Rhyolite intrusion (Cp)
85.2 - 117.0	Black siltstone (Cyss)
117.0 - 170.3	Ashy siltstone and fine grained dacitic volcanoclastic sandstone (Cya/Cym)
170.3 - 215.0	Black siltstone (Cyss)
215.0 - 218.2	Dacitic volcanoclastic sandstone (Cym)
218.2 - 243.2	Interbedded black siltstone and ashy siltstone (Cyss/Cya)
243.2 - 264.9	Ashy siltstone and fine grained dacitic volcanoclastic sandstone (Cya/Cys)
264.9 - 277.2	Sericite - pyrite altered feldspar rich volcanoclastic sandstones (Ccv)
277.2 - 385.3	Feldspar rich volcanoclastic sandstones (Ccv)

The upper parts Central Volcanic Sequence is sericite - pyrite altered with 5% disseminated pyrite and minor sphalerite microveining. The altered zone extends from 264.5 to 277m and is of a lower grade than the WSP5 intersection and in contrast has no ankeritic carbonate present. It returned a best assay of 2.8m at 0.7% Zn and 0.2% Pb.

Cross cutting pyrrhotite-carbonate veining within black pyritic siltstones from 188 to 203.5m may explain a combined CSAMT, DIGHEM and DHEM (WSP5) anomaly.

WSP9

Drill hole WSP9 (Appendix 7) was designed to test the Central Volcanic Sequence - White Spur Formation contact about 400m south of WSP5. A summary log is:-

0 - 31.5	Mass flow (Cymf)
31.5 - 169.2	Rhyolite Intrusion (Cp)
169.2 - 189.8	Black siltstone (Cyss)
189.8 - 197.0	Zone of quartz veining and tectonised siltstone (Fault)
197.0 - 199.1	Siltstone and rhyolite breccia (Cyss/Cp)
199.1 - 207.8	Rhyolite intrusion (Cp)
207.8 - 217.2	Black siltstone (Cyss)
217.2 - 226.5	Graded mass flows (Cymf)
226.5 - 355.0	Black siltstone (Cyss)
355.0 - 358.8	Fine - medium grained volcanoclastic sandstone (Cys)
358.8 - 378.0	Ashy siltstone and fine grained sandstone (Cya)
378.0 - 415.0	Feldspar rich volcanoclastic sandstones
415.0 - 420.1	Black siltstone (Cyss)
420.1 - 425.6	Medium grained volcanoclastic sandstone (Cym)
425.6 - 442.4	Black siltstone (Cyss)
442.4 - 455.1	Interbedded black siltstone and medium grained volcanoclastic sandstone (Cyss/Cym)
455.1 - 459.0	Black Siltstone (Cyss)
459.0 - 476.0	Fine - medium grained volcanoclastic sandstone and rhyolite peperite (Cys/Cp)
476.0 - 508.0	Feldspar rich volcanoclastic sandstones (Ccv)

Drill hole WSP9 was completed at a depth of 508m and intersected moderately sericite-pyrite altered White Spur Formation from 378 to 415m. The Central Volcanic Sequence near the contact with the White Spur formation was essentially unaltered.

WSP10

Drill hole WSP10 (Appendix 8) targeted about 400m down dip of the WSP5 intersection. The hole was completed in mid March 1998 and only preliminary details are presented. A detailed log, assays and cross section will be included in the next annual report.

WSP11

WSP11 (Appendix 9) is the first of a series of widely spaced holes designed to test the Central Volcanic Sequence - White Spur Formation contact in the north of the EL. The hole was located about 800m north of drill hole WSP4.

Summary Log:-

0 - 82.9	Interbedded greywacke and lithicwacke (Cyg)
82.9 - 109.1	Black Siltstone (Cyss)
109.1 - 125.0	Ashy Siltstone (Graded top of underlying mass flow) (Cya)
125.0 - 154.0	Qtz - feld crystal rich volcanoclastic sandstone (Graded mass flow) (Cyx)
154.0 - 184.4	Lithic rich base to mass flow horizon (Cyx)
184.4 - 194.2	Black Siltstone (Cyss)
194.2 - 211.5	Ashy Siltstone (Graded top of underlying mass flow) (Cya)
211.5 - 240.0	Qtz - feld crystal rich volcanoclastic sandstone (Graded mass flow) (Cym)
240.0 - 241.2	Lithic rich base to mass flow horizon. Minor pyrite clasts. (Cymfs)
241.2 - 292.0	Medium grained feldspar phyric pumice breccia. (Ccv)

WSP11 intersected a similar stratigraphic sequence displayed by drill hole WSP4, MR1 and WSP2. A feature of this drill hole was the thinning of the basal sulphide bearing mass flow horizon of the White Spur Formation. In drill holes WSP4 and MR1 this unit was about 45m thick whereas in WSP11 this unit has a true thickness of about 1m. This highlights the channellised form of the mass flow deposit. The WSP11 intersection is considered to represent the more distal over-bank portions of the mass flow. The thick lithic rich basal units from WSP4 and MR1 reflect channelling of the mass flow into topographic lows.

The Central Volcanic Sequence was intersected at 241.2m. It consisted of essentially unaltered medium grained feldspar phyric volcanoclastic sandstone with weak to moderate patchy pink albite - chlorite alteration.

WSP12

WSP12 (Appendix 10) targetted the Central Volcanic Sequence - White Spur formation contact about 1 kilometre north of WSP11. The hole was completed in early March 1998 and only preliminary details are presented. A detailed log, assays and cross section will be included in the next annual report.

6.3 DRILL CORE GEOCHEMISTRY

A simple plot of Ti verses Zr can be used differentiate different rock compositions. Both elements are essentially immobile due hydrothermal alteration and weathering and typically display a linear trend projecting back through the origin on a Ti - Zr plot. The slope of the linear trend is the Ti/Zr ratio which has been shown to be a useful discriminant between felsic and mafic rock types (Stolz, 1996 and Crawford et al, 1992):-

Rhyolite	Ti/Zr	<12
Dacite		12 - 20
Andesite		20 - 65
Basalt		>65

Figure 4 is a plot showing the Ti and Zr variation for drill core analyses from the White Spur area.

Rocks from the White Spur Formation have a range in Ti/Zr ratios from <10 to about 40. In general, black siltstones have a high Ti/Zr usually >15. The crystal rich bases of mass flow deposits have Ti/Zr that range from 15 to 30 and are generally more mafic in composition than the graded ashy tops which range from 10 to 20. As deposition of the mass flow deposit nears completion and most of the ashy component has settled out, an input of ambient black siltstone detritus may be recorded in the upper part of the mass flow deposit and a more mafic Ti/Zr ratio present. Thus mass flow deposits may be stratified with respect to Ti/Zr. This attributed to fractionation and sorting of Ti and Zr bearing minerals during sediment transport and mixing of sediments with a different provenance.

A plot of Ti/Zr verses Th (Figure 6) clearly shows the effect of sedimentary fractionation on White Spur Formation mass flow deposits. The crystal rich mass flow bases (light blue symbols - see Table 1) have high Ti/Zr and low Th compared to the Th enriched graded upper units (light green symbols). This is attributed to the mechanical concentration of crystal and lithic fragments in the basal mass flow units and separation of volcanic shards and pumice (felsic enriched components) to the fine grained graded ashy mass flow tops.

A plot of Th verse Sc (Figure 7) can be used to chemically distinguish the compositional gradients present within typical White Spur Formation mass flow deposits. In general, two distinct populations exist:-

- | | | |
|----|-----------------|---|
| a) | Mass flow tops | High Th/Sc
Light green symbols
Pink squares
Open dark blue circles |
| b) | Mass flow bases | Low Th/Sc
Light blue symbols |

Black siltstones (dark blue squares) have similar Th/Sc and Ti/Zr to the crystal rich mass flow bases and can be clearly distinguished as a discrete geochemical entity on plots of Th verses La (Figure 8) and Th verses Hf (Figure 9).

The major sulphide bearing mass flow deposit (Cymfs) is represented by the purple squares on the plot of Th verse Sc (Figure 7) and Hf verses Sc (Figure 10). This unit

is characterised by abundant felsic derived lithic clasts with rip up clasts of black siltstone more abundant in the basal portion. The well graded ashy upper parts of this mass flow were not sampled. In general this unit has a very high Th/Sc ratio, greater than 8 and plots on a distinct trend separate from other White Spur Formation units although it displays many of the characteristics of ashy mass flow tops (eg high Th/La and La/Sm (Figure 11)). The basal portion of this unit with the rip up black siltstone rafts is represented on the plots by the open purple squares. On the plot of Th/Sc verses Hf (Figure 12) and the Sc, Th/Sc and Hf triangular plot (Figure 13) this group forms an intermediate trend between the mass flow and black siltstone and represents mixing from two distinct sediment sources.

The majority of samples from the Central Volcanic Sequence have Ti/Zr ratios between 9 and 14 although the distribution is bimodal with maxima at about 10 and 13. Several samples from the upper parts of the Central Volcanic Sequence are generally more mafic with Ti/Zr ratios from 15 to about 30. Large and Allen (1997) note a similar trend from the foot wall pumice breccias (Ti/Zr ~9) to the host rocks (Ti/Zr 12 - 14) at Rosebery, which they ascribed to progressive tapping of more dacitic magma towards the end of the huge pumice breccia forming eruption.

Sample from the Anneliese prospect have Ti/Zr of 18 to 20, generally more andesitic than the Central Volcanic Sequence in the White Spur area.

All the Central Volcanic Sequence analyses are plotted on Figure 5. There are two general clusters present. Samples from drill holes WSP4, WSP5 and WSP6 define a trend with a Ti/Zr ratio of about 13. In contrast samples from drill holes WSP7, WSP8, WSP9 and WSP11 define a trend of Ti/Zr of about 10. Detailed logging has shown that the Central Volcanic Sequence in all holes from WSP4 to WSP11 is texturally and mineralogically similar and should have the same Ti/Zr ratio.

Samples from WSP4, WSP5 and WSP6 were analysed by XRF from a fused glass disc (Analabs method X408) while samples from WSP7, WSP8, WSP9 and WSP11 were analysed by XRF from a pressed powder pellet (Analabs method X401). It is suggested that the two clusters of Ti/Zr present in the data are due to calibration error between the two different analytical techniques rather than analytical error associated with each method.

In order to evaluate the anomalous Zn mineralisation in hole WSP5 a series of down hole chemical profiles are presented on Plan 8. Each profile has an X- ("stratigraphic") axis oriented with respect to the Central Volcanic Sequence - White Spur Formation contact which has been designated as zero. A negative number on this axis implies a hangingwall stratigraphic position while a positive number implies a footwall sample.

Drill Hole WSP5 has an anomalous intersection of 17m at 0.77% Zn and 0.4% Pb developed at the contact between the White Spur Formation - Central Volcanic Sequence contact. This is shown by the distribution of Zn which defines a distinct bell shaped anomaly. This anomaly also transgresses the basal units of the White Spur Formation. The anomalous Zn peak is also reproduced by Cu, Pb, As and Sb.

Pb, As and Sb have a bimodal distribution with a subsidiary peak developed within the generally unaltered Central Volcanic Sequence.

A plot of Na provides a good estimation of the alteration intensity and the Na profile displays a distinct zone of strong Na depletion, about 14m wide at the top of the Central Volcanic Sequence coincident with the anomalous Zn, Cu, Pb, As and Sb. Significantly the subsidiary Pb, As and Sb peak has no associated zone of Na depletion. A lead isotope sample from the subsidiary Pb peak returned a result more typical of Devonian vein style mineralisation and may suggest that this zone of Pb enrichment is unrelated to the earlier phase of Na destructive alteration.

K₂O shows a pronounced increase at the top of the central Volcanic sequence and reflects the development of sericite in the main alteration zone.

The Ti/Zr ratio of the footwall rocks is generally 12 to 13 and increases to about 15 at the White Spur Formation contact. The two yellow crosses with abnormally low Ti/Zr of about 6 represent zones of strong quartz veining. The Th/Sc ratio of the unaltered footwall rocks is very constant (~2) and indicates the massive, uniform and unstratified nature of these rocks. The upper most parts of the Central Volcanic Sequence are typically more mafic in composition with Th/Sc about 1.

The heterogeneity of the White Spur Formation is displayed by the highly variable trends on the profiles of Ti/Zr, Th/Sc P₂O₅, Th, La and Al₂O₃. In general (as discussed above), there is pronounced differentiation within individual massflow units. Crystal rich massflow bases (solid light blue squares) are generally more mafic than their complementary graded ashy tops (light green symbols). The black siltstones (solid dark blue squares) have high P₂O₅ indicating the presence of mafic detritus which is generally not evident in the White Spur Formation volcanics.

There is a cyclic nature displayed by the two lower massflow horizons from stratigraphic position +3 to +37. This is evident in the repeated pattern of geochemical colour codes from base to top:- Solid light blue squares(Base)-Green triangles-Green crosses-Dark blue circles(Top). Stratigraphically underlying the lowest crystal rich volcanoclastic sandstone (at +3) is a thin unit of ashy siltstone (depicted by the two light green triangles) that has no associated crystal rich base. This ashy siltstone sits directly on the Central Volcanic Sequence.

An alternative correlation would be that this ashy siltstone has a rather thick basal unit which is represented by the upper parts of the Central Volcanic Sequence. It has previously been shown that the upper parts of the Central Volcanic Sequence has a distinct chemistry and in many respects similar to the Crystal rich volcanoclastic facies of the White Spur Formation. Such a correlation would place the Central Volcanic Sequence - White Spur Formation contact much lower in the sequence than presently inferred, and the WSP5 alteration zone within the lower White Spur Formation.

TABLE 1. - White Spur Drill Core Geochemistry Colour Codes**Central Volcanic Sequence**

Solid Orange Circle	Feldspar phyric pumiceous breccia (Dacite)	(Ccv)
Solid Yellow Square	Sericite altered Feldspar phyric pumiceous breccia	(Ccva)
Open Yellow Square	Sericite altered Feldspar phyric pumiceous breccia	(Ccva)
Yellow X	Sericite altered Feldspar phyric pumiceous breccia	(Ccva)
Open Yellow Diamond	Sericite altered Feldspar phyric pumiceous breccia	(Ccva)
Yellow Star	Grey ashy siltstone in WSP5	(CcvS)
Red X	Feldspar phyric pumiceous breccia (Dacite) in WSP6	(Ccv)
Open Red Diamond	Feldspar phyric pumiceous breccia (Andesite)	(Ccv)

White Spur Formation

Solid Purple Square	Polymictic mass flow with sulphide clasts	(Cymfs)
Open Purple Square	As above, with abundant black siltstone rafts (Basal unit of Cymfs)	
Solid Dark Blue Square	Black Siltstone	(Cyss)
Open Dark Blue Circle	Ashy Black siltstone	(Cyss/Cya)
Light Green +	Ashy volcanoclastic siltstone (Graded mass flow top)	(Cya)
Light Green X	Ashy volcanoclastic siltstone (Graded mass flow top)	(Cya)
Open Light Green Triangle	Ashy volcanoclastic siltstone (Graded mass flow top)	(Cya)
Solid Light Green Square	Ashy volcanoclastic siltstone (Graded mass flow top)	(Cya)
Solid Pink Square	Crystal rich volcanoclastic sandstone (Mass flow base)	(Cym, Cys)
Light Blue Star	Crystal rich volcanoclastic sandstone (Mass flow base)	(Cym, Cys)
Open Light Blue Square	Crystal rich volcanoclastic sandstone (Mass flow base)	(Cym, Cys)
Solid Light Blue Square	Crystal rich volcanoclastic sandstone (Mass flow base)	(Cym, Cys)

Others

Open Green Triangle	Qtz porphyry intrusive	(Cp)
Open Green Triangle	Qtz-feld crystal rich volcanoclastic sandstone - one sample only	(Cyx)

Figure 4
White Spur Core Geochemistry - Ti verses Zr

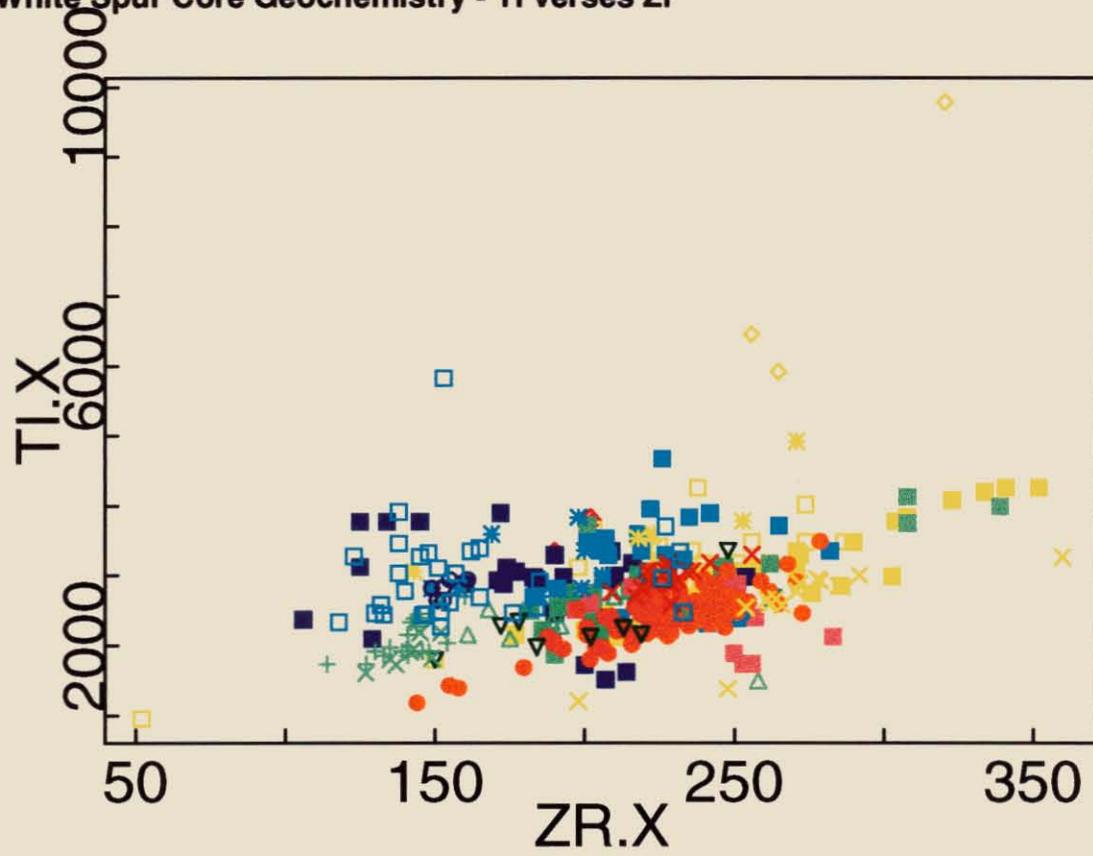


Figure 5
White Spur Core Geochemistry - Ti verses Zr for Central Volcanic Sequence

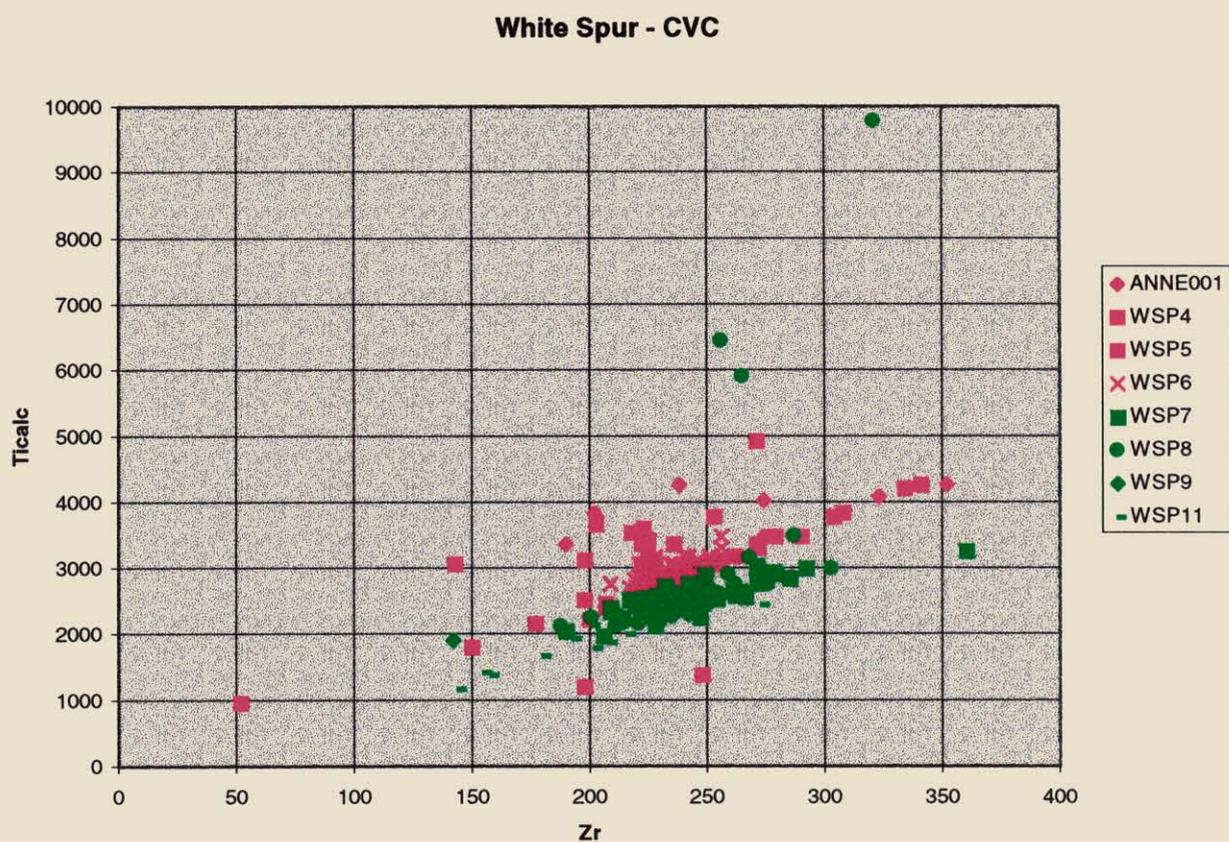


Figure 7
White Spur Core Geochemistry - Th verses Sc

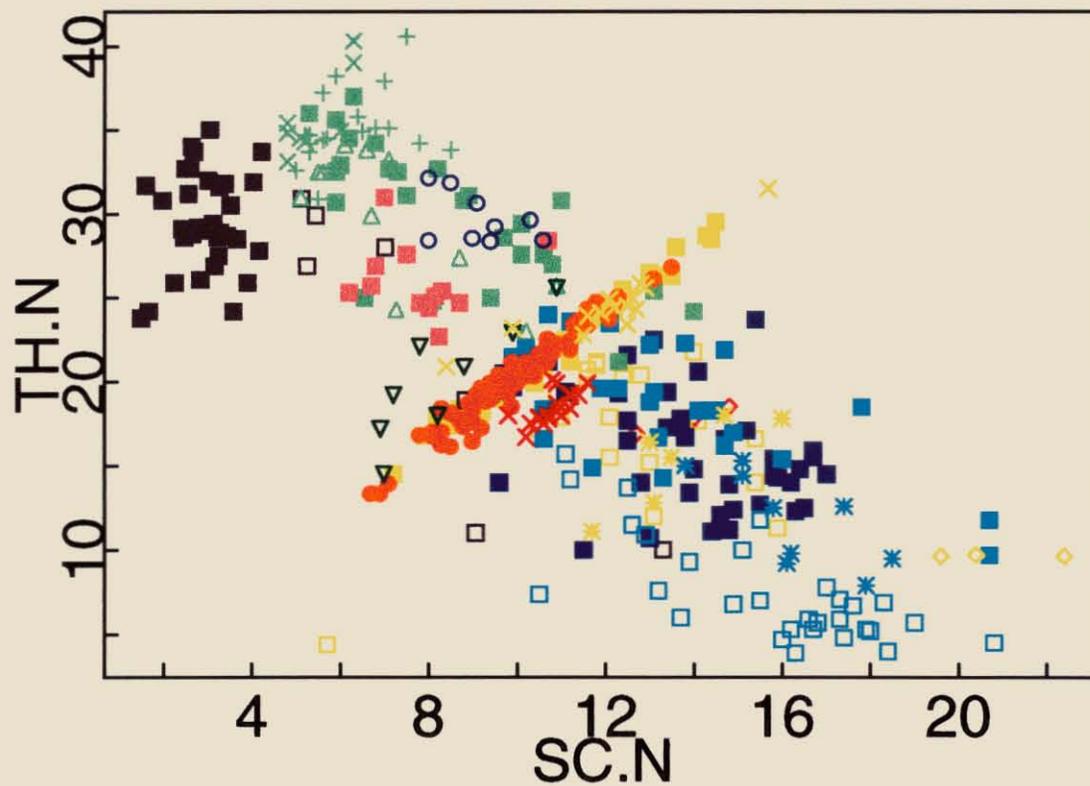


Figure 8
White Spur Core Geochemistry - Th verses La

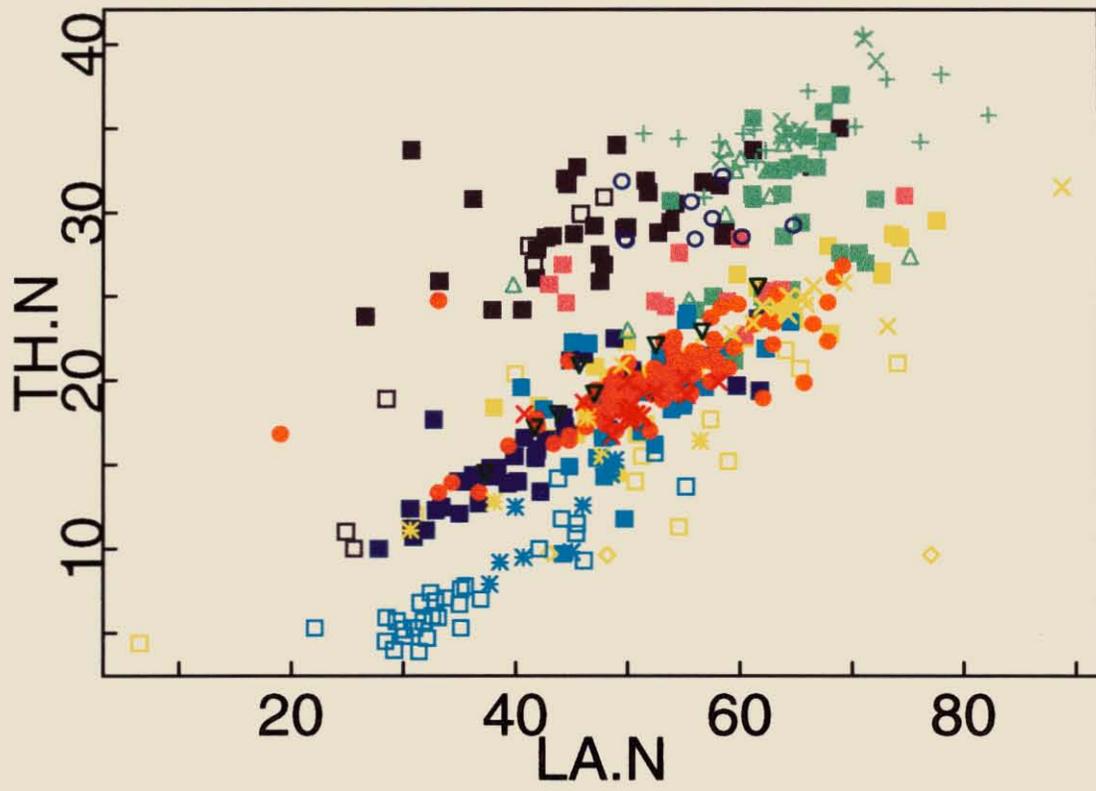


Figure 9
White Spur Core Geochemistry - Hf verses Th

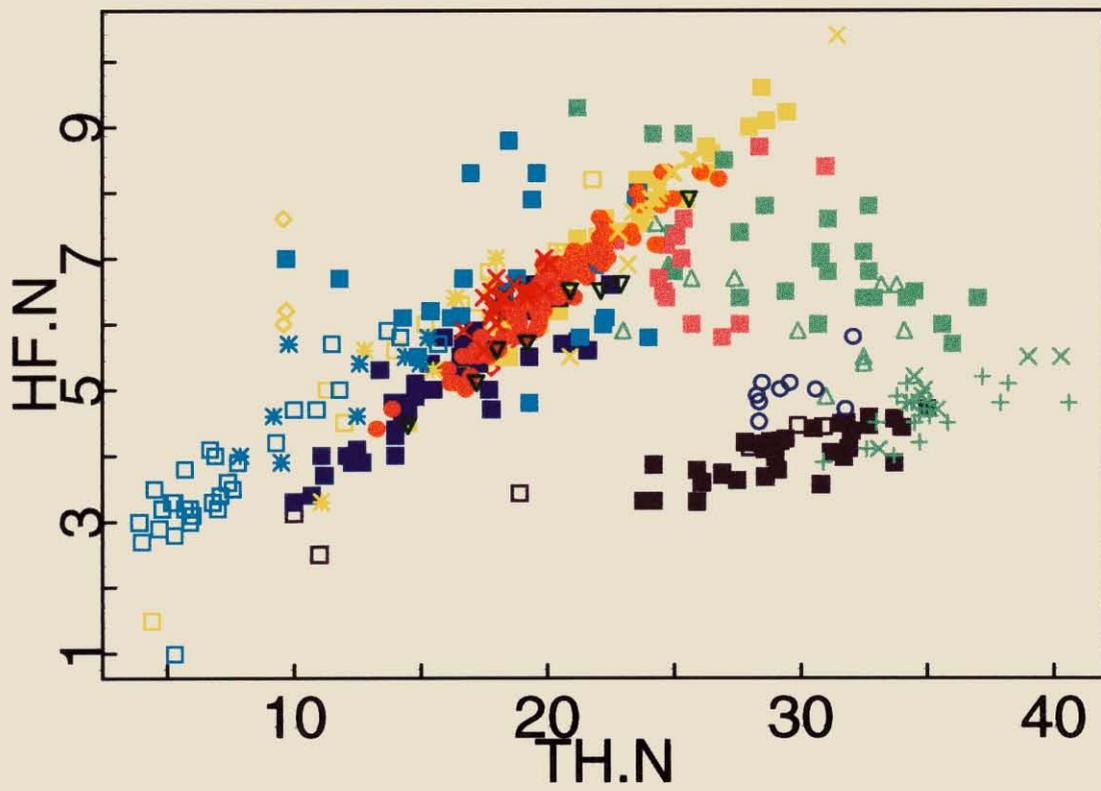


Figure 10
White Spur Core Geochemistry - Hf versus Sc

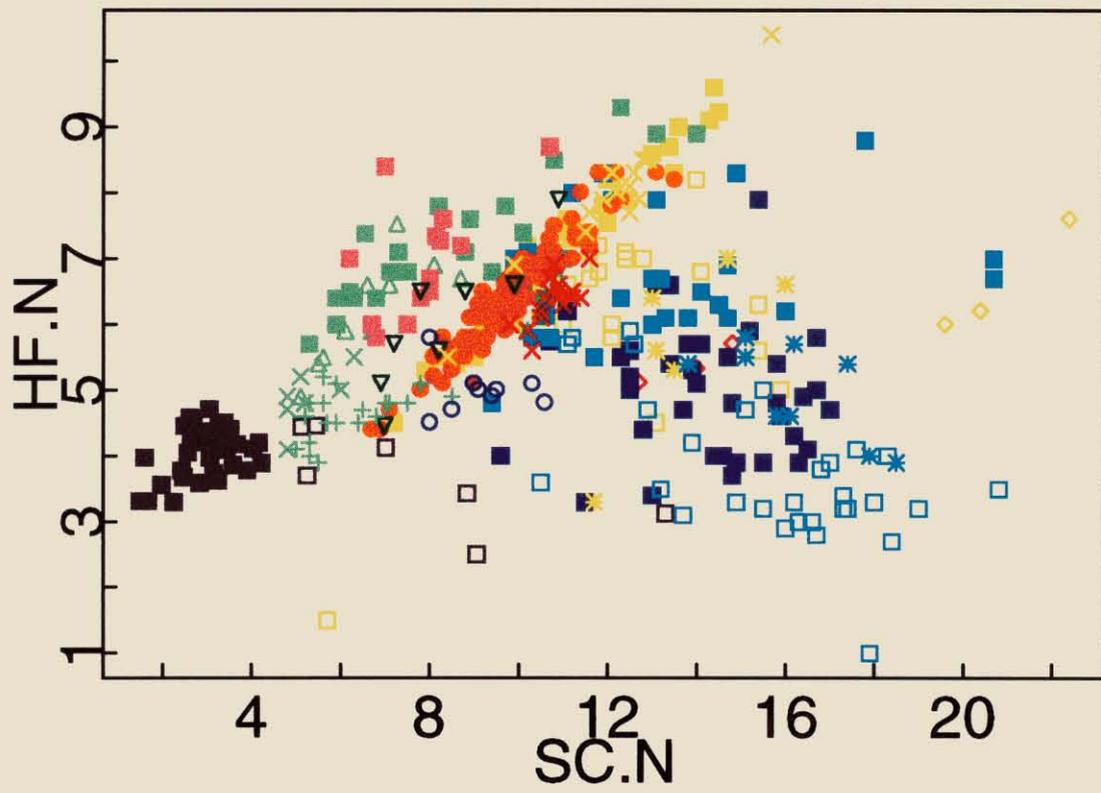


Figure 11
White Spur Core Geochemistry - La versus Sm

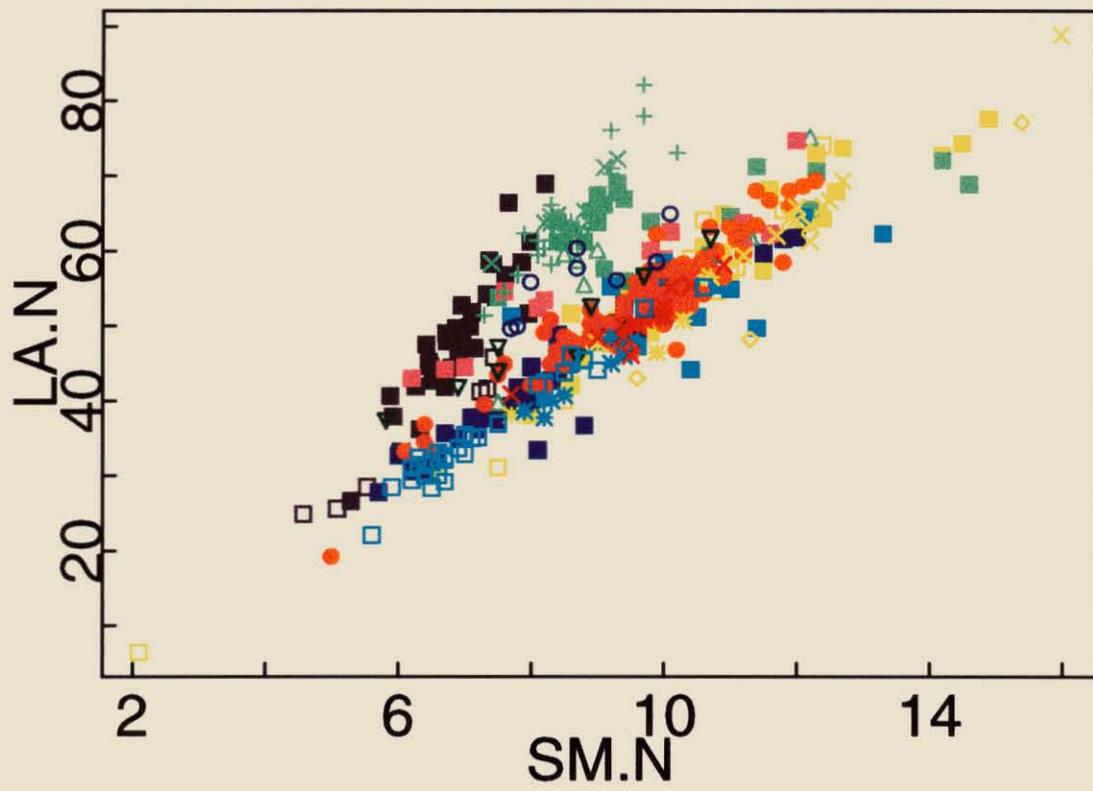


Figure 12
White Spur Core Geochemistry - Th/Sc verses Hf

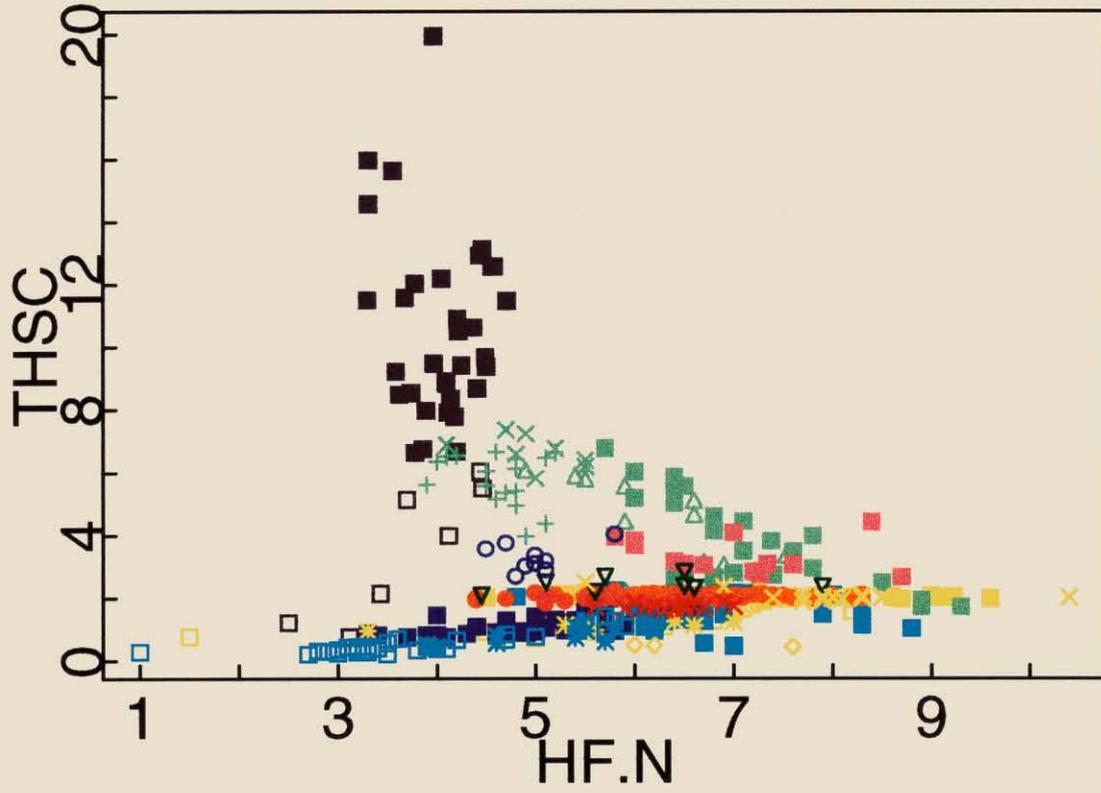
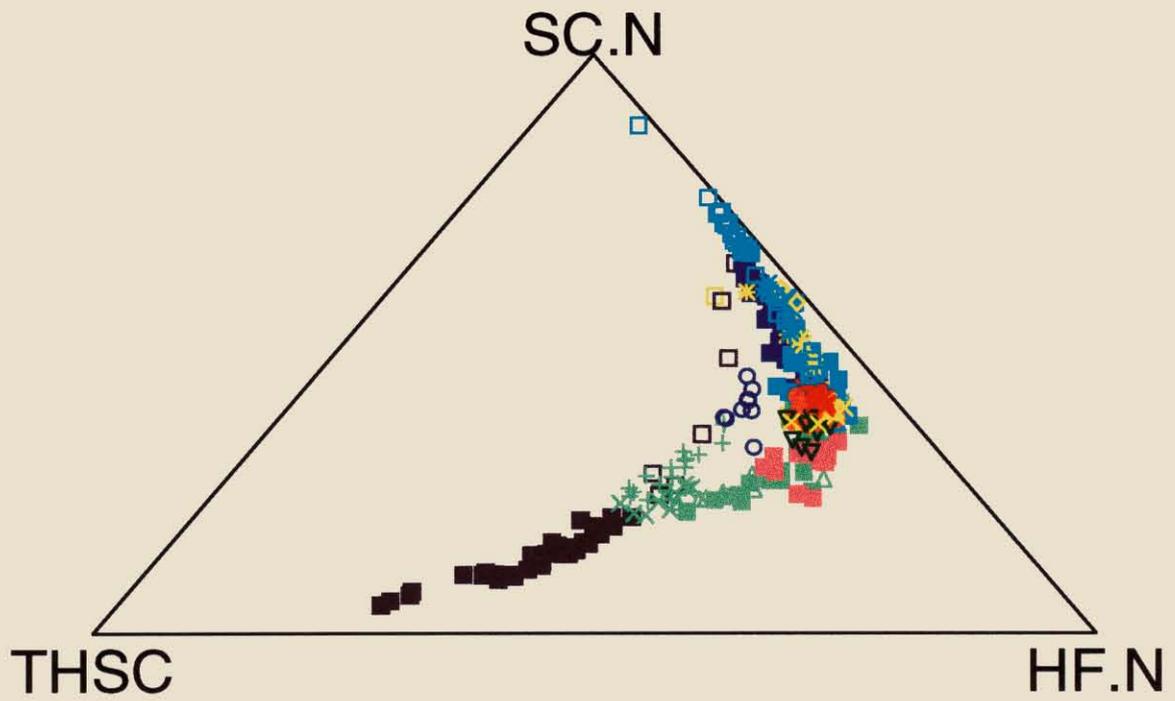


Figure 13
White Spur Core Geochemistry - Sc, Th/Sc and Hf Triangular Plot



6.4 ROCK CHIP GEOCHEMISTRY

A data base of 211 rock chip analyses from the White Spur area has been compiled from a variety of sources. These are summarised in the table below:-

Table 2 - White Spur Rock Chip Samples

Samples	Sampler	Reference
37744 - 37793	RGC Exploration	Vicary, 1997
41774 - 41779	RGC Exploration	This report
43802 - 43841	RGC Exploration	This report
131346 - 131396	T. Nunn	Tas. University collection
HRC96-1 - HRC96-45	CODES/AMIRA	Stolz et al, 1996
WS97-1 - WS97-46	CODES/AMIRA	Herrmann et al, 1997
P37920 - P37936	Pasminco	Poltock, 1992

All the samples have been analysed for a variety of major and trace elements. The results are tabulated in Appendix 11.

Figure 14 shows the location of each sample. The RGC in-house geochemical analysis system "GAS" has been used to analyse the data. Plots of immobile elements (Ti, Zr, Hf, V and Th) have been used as the basis for the coding. Where a group of analyses define a coherent linear trend or consistent cluster, that group is considered to have a chemical composition unmodified by the effects of alteration and weathering. Each major subgroup, or primary composition has been designated a specific colour and/or symbol.

Figure 15 shows the variation in Ti and Zr concentrations. The Central Volcanic Sequence consists of two main lithologies as shown by the linear trends defined by the orange and yellow symbols. The yellow group has a Ti/Zr ratio of between 6 to 9 and is more rhyolitic than the orange group with Ti/Zr ratios of 10 to 15. A third subgroup of the Central Volcanic Sequence is shown on Figure 16 with rocks from the Anneliese Prospect (orange open circles) having a higher Ti/Hf than the orange and yellow squares, or rhyolitic and dacitic subgroups. This high Ti/Hf unit has a equivalent Ti/Zr ratio (calculated using $Ti/Zr = Ti/39Hf$) of greater than 15, which is within the dacitic to andesitic compositional range.

Ti/Zr ratios can also be used effectively to subdivide the White Spur Formation into five subgroups. Significantly the two most felsic subgroups are compositionally equivalent to the rhyolitic and dacitic parts of the Central Volcanic Sequence. This may suggest that parts of the White Spur Formation are derived from similar source rocks to the Central Volcanic Sequence or from local reworking of the Central Volcanic Sequence.

The dark blue subgroup of the White Spur Formation has a highly variable Ti/Zr ratio that ranges from 14 to 45. This is possibly due to mixing of several compositionally distinct sources with a major component of mafic material being indicated by high Ti/Zr, V, Fe, Cr, Mg and P₂O₅ (Figures 17 and 18). A fourth subgroup forms an intermediate group between the mafic derived (dark squares) and the felsic derived

subgroups. This possibly reflects a combination of mixing and sedimentary fractionation.

Figure 14
White Spur Rock Chip Lithochemochemistry - Sample locations

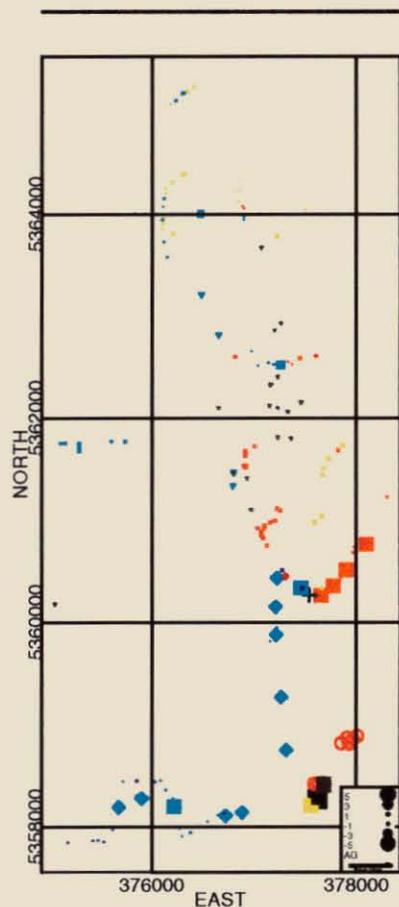
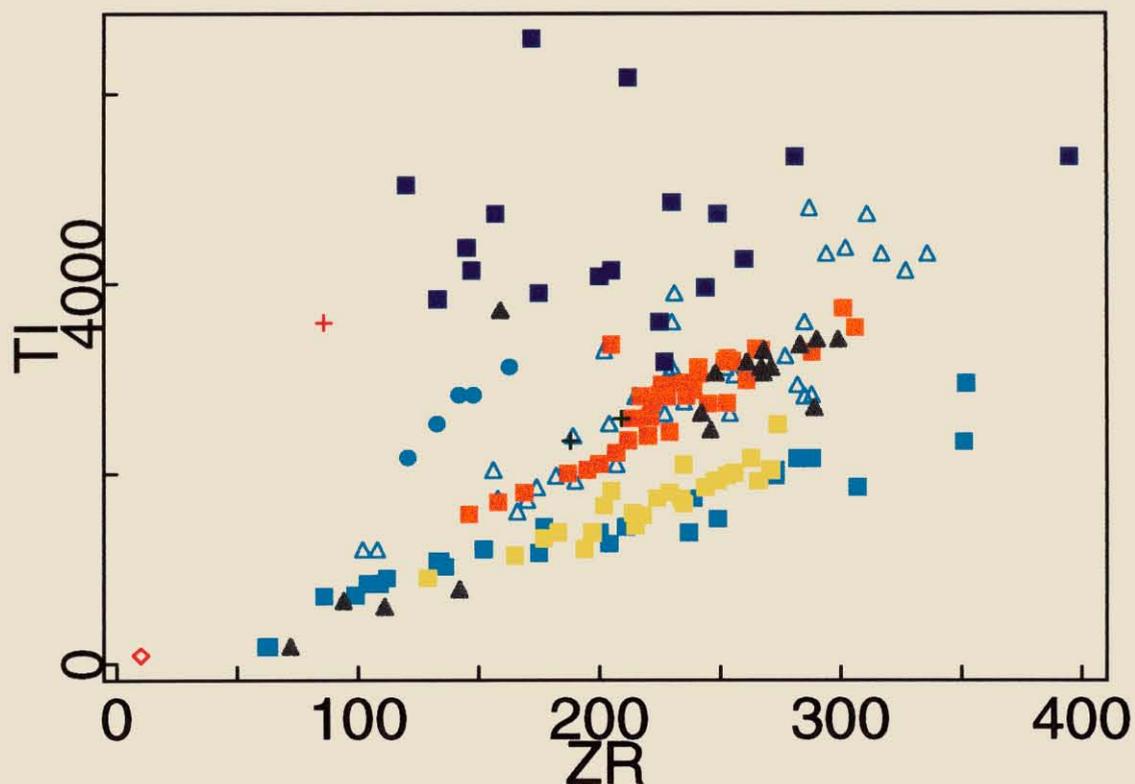


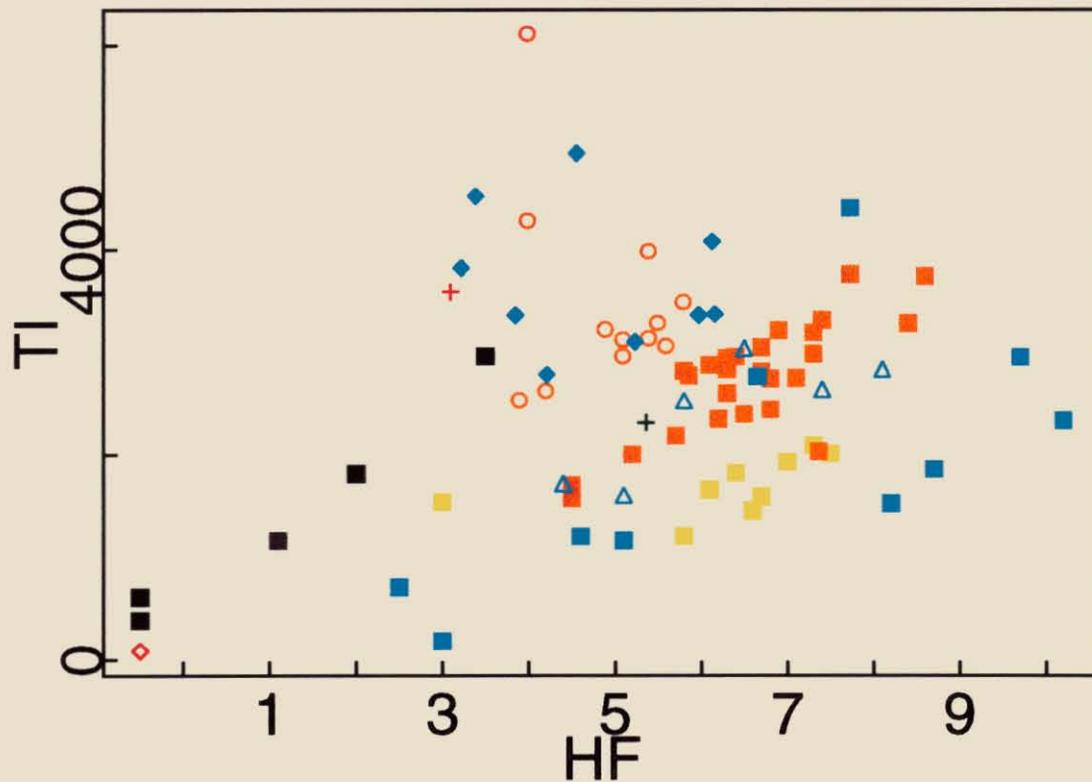
Figure 15
White Spur Rock Chip Lithochemochemistry - Ti verses Zr



LEGEND

Central Volcanics Sequence	Ti/Zr >15	Orange open circle
	Ti/Zr 10-15	Orange solid square
	Ti/Zr 6-9	Yellow solid square
	Massive Pyrite	Black solid square
	Siltstone	Purple solid square
White Spur Formation	Ti/Zr 18-20	Light blue solid circle
	Ti/Zr 10 -18	Light blue open triangle
	Ti/Zr <10	Light blue solid square
	Ti/Zr 10 -18, Moderate V	Light blue solid diamond
	High V, Ti/Zr 14-45	Dark blue solid square
Other	Rhyolite intrusive	Green cross
	Henty Fault Wedge Sequence	Brown solid square
	Miscellaneous	Red diamond and cross
	Unassigned	Grey solid square

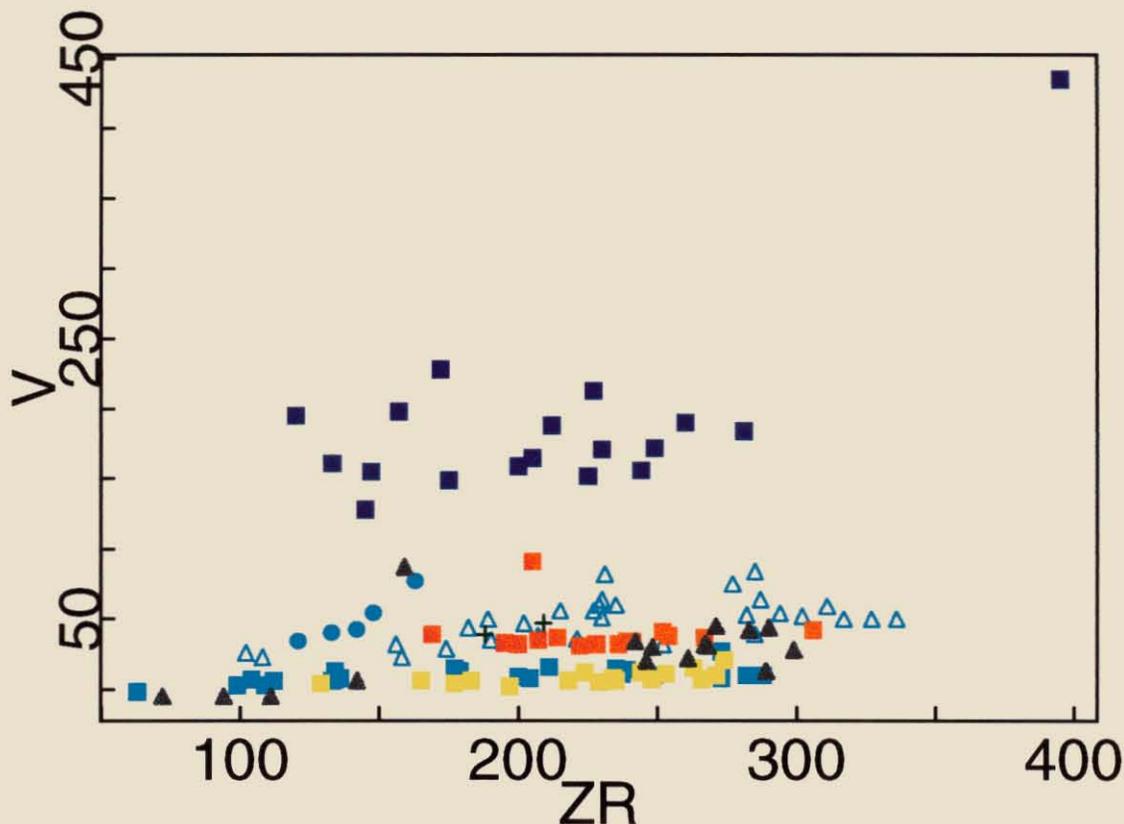
Figure 16
White Spur Rock Chip Lithochemochemistry - Ti verses Hf



LEGEND

Central Volcanics Sequence	Ti/Zr >15	Orange open circle
	Ti/Zr 10-15	Orange solid square
	Ti/Zr 6-9	Yellow solid square
	Massive Pyrite	Black solid square
	Siltstone	Purple solid square
White Spur Formation	Ti/Zr 18-20	Light blue solid circle
	Ti/Zr 10 -18	Light blue open triangle
	Ti/Zr <10	Light blue solid square
	Ti/Zr 10 -18, Moderate V	Light blue solid diamond
	High V, Ti/Zr 14-45	Dark blue solid square
Other	Rhyolite intrusive	Green cross
	Henty Fault Wedge Sequence	Brown solid square
	Miscellaneous	Red diamond and cross
	Unassigned	Grey solid square

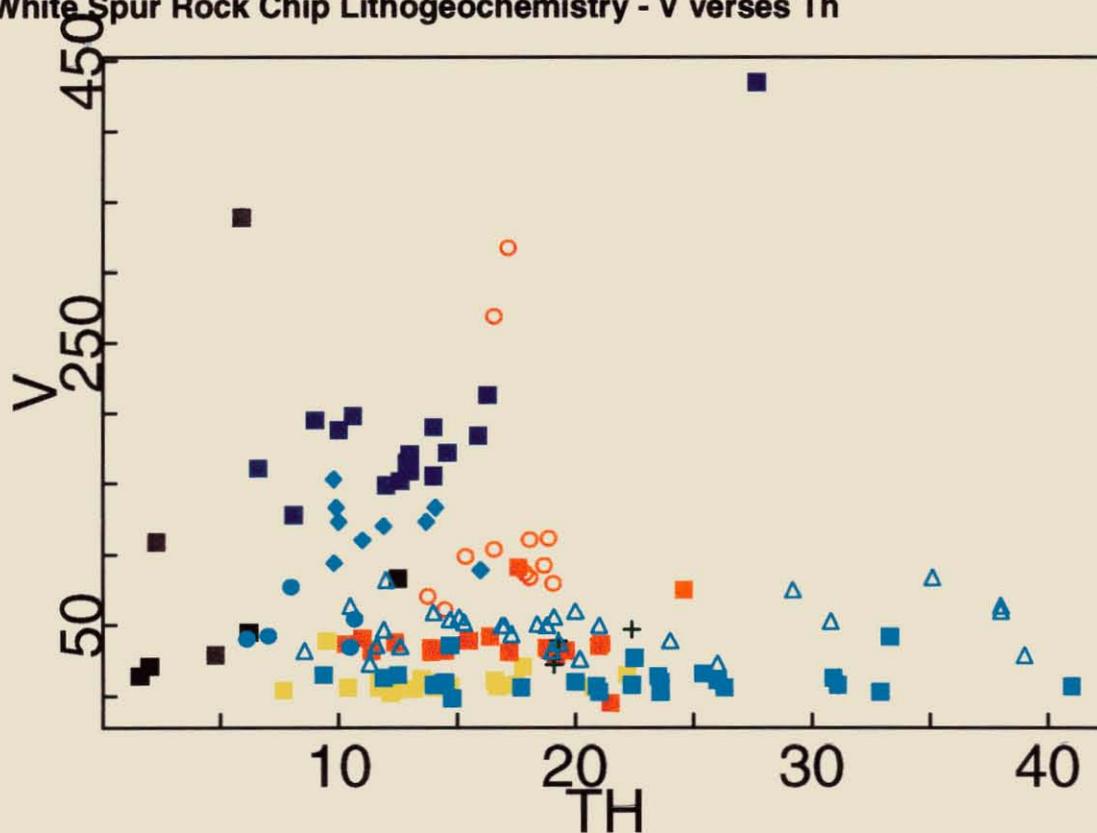
Figure 17
White Spur Rock Chip Lithochemochemistry - V versus Zr



LEGEND

Central Volcanics Sequence	Ti/Zr >15	Orange open circle
	Ti/Zr 10-15	Orange solid square
	Ti/Zr 6-9	Yellow solid square
	Massive Pyrite	Black solid square
	Siltstone	Purple solid square
White Spur Formation	Ti/Zr 18-20	Light blue solid circle
	Ti/Zr 10 -18	Light blue open triangle
	Ti/Zr <10	Light blue solid square
	Ti/Zr 10 -18, Moderate V	Light blue solid diamond
	High V, Ti/Zr 14-45	Dark blue solid square
Other	Rhyolite intrusive	Green cross
	Henty Fault Wedge Sequence	Brown solid square
	Miscellaneous	Red diamond and cross
	Unassigned	Grey solid square

Figure 18
White Spur Rock Chip Lithochemochemistry - V versus Th



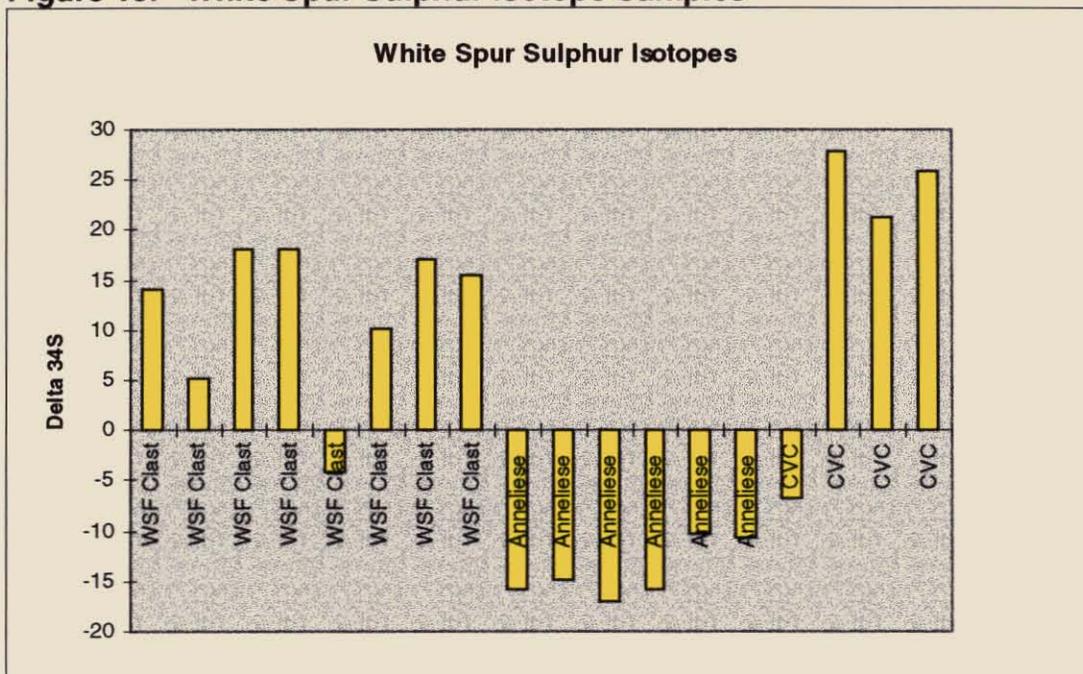
LEGEND

Central Volcanics Sequence	Ti/Zr >15	Orange open circle
	Ti/Zr 10-15	Orange solid square
	Ti/Zr 6-9	Yellow solid square
	Massive Pyrite	Black solid square
	Siltstone	Purple solid square
White Spur Formation	Ti/Zr 18-20	Light blue solid circle
	Ti/Zr 10 -18	Light blue open triangle
	Ti/Zr <10	Light blue solid square
	Ti/Zr 10 -18, Moderate V	Light blue solid diamond
	High V, Ti/Zr 14-45	Dark blue solid square
Other	Rhyolite intrusive	Green cross
	Henty Fault Wedge Sequence	Brown solid square
	Miscellaneous	Red diamond and cross
	Unassigned	Grey solid square

6.5.1 Sulphur Isotopes

Ten sulphide samples from the White Spur area were analysed for $\delta^{34}\text{S}_{\text{cdt}}$ isotopes at the Central Science Laboratory, University of Tasmania. The samples were collected from a variety of rock types including veinlets and disseminations from the Central Volcanic Sequence and sulphide clasts from mass flow horizons in the overlying White Spur Formation. The results are tabulated in Appendix 12. Figure 19 is a histogram shown the range in $\delta^{34}\text{S}$ values from all the samples collected from the White Spur area.

Figure 19. White Spur Sulphur Isotope Samples



Three distinct populations are present. The sulphide clasts from the White Spur Formation have $\delta^{34}\text{S}$ values that range from -4 to +18 ‰ however they are generally in the range from +10 to +18 ‰. This is consistent with derivation from typical western Tasmania Cambrian ore grade massive sulphides deposits which range from $\delta^{34}\text{S}$ +5 to +20 ‰ (Solomon et al, 1988).

The massive sulphide from the Anneliese Prospect is characterised by extremely light $\delta^{34}\text{S}$ values that range from -10 to -17 ‰. It is similar to western Tasmanian barren sulphide zones (Large, 1989) which typically have $\delta^{34}\text{S}$ values that range from -8 to +5 ‰.

Sulphides present as disseminations and veinlets in the upper parts of the Central Volcanic Sequence define the third population with $\delta^{34}\text{S}$ values that range from +21 to +28 ‰. These values are generally higher than typical western Tasmania Cambrian ore grade massive sulphides deposits although similar values have been reported from the outer margins of the stringer zone at Hellyer (Gemmell and Large, 1992) and Rosebery (Davidson and Kitto, 1997). Such heavy $\delta^{34}\text{S}$ values result from almost complete reduction of seawater at the margins of a hydrothermal system. This suggests that samples collected in the upper parts of the Central Volcanic Sequence

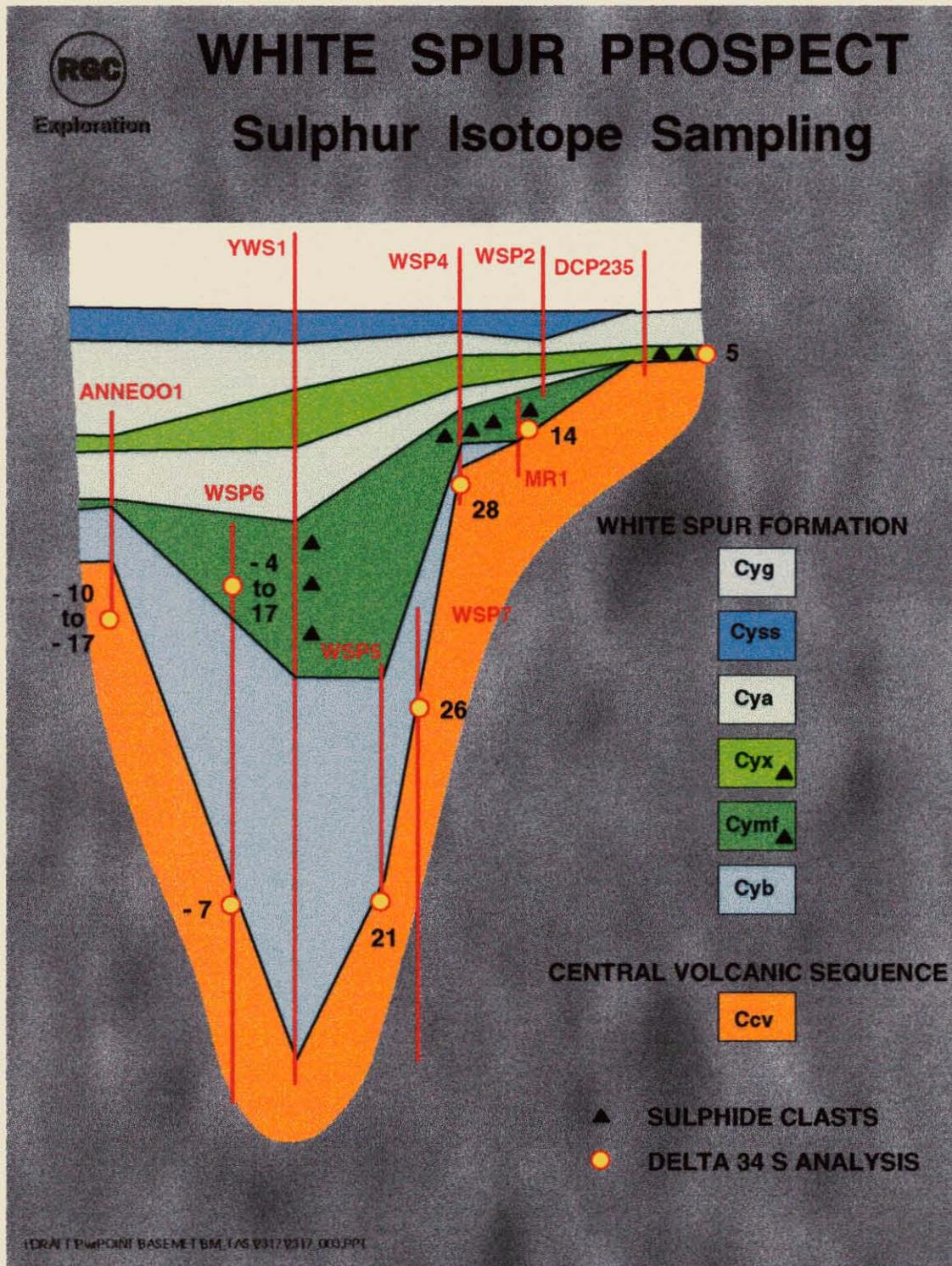
from hole WSP5, WSP7 and WSP6 were probably deposited at the margins of a hydrothermal system.

Disseminated pyrite from the upper parts of the Central Volcanic Sequence sampled in WSP4 had a $\delta^{34}\text{S}$ value of -7‰ which is similar to values from the Anneliese Prospect.

Figure 20 is a schematic cross section through the White Spur EL showing the location of the sulphur isotope samples.

Figure 20

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6.5.2 Lead Isotopes

Three samples were submitted to Curtin University in Western Australia for Pb isotope analysis. Sample details and results are tabulated below:-

Table 3. White Spur Lead Isotope Results

Sample	Hole	Depth	Comments	Mineral	206/204	207/204	208/204
43852	WSP5	325.0	Vein	Galena	18.539	15.676	38.525
43853	WSP4	393.3	Clast	Galena	18.343	15.655	38.217
43849	WSP6	46.1	Clast	Galena	18.332	15.641	38.172

The results are presented in Figure 21. This figure shows clear distinction between the two samples of sulphide clasts from the basal White Spur Formation (WSP4 and WSP6) and mineralisation from Rosebery and Hercules (in Red). It can be concluded that these ore bodies were not the source of the lead present in the clasts.

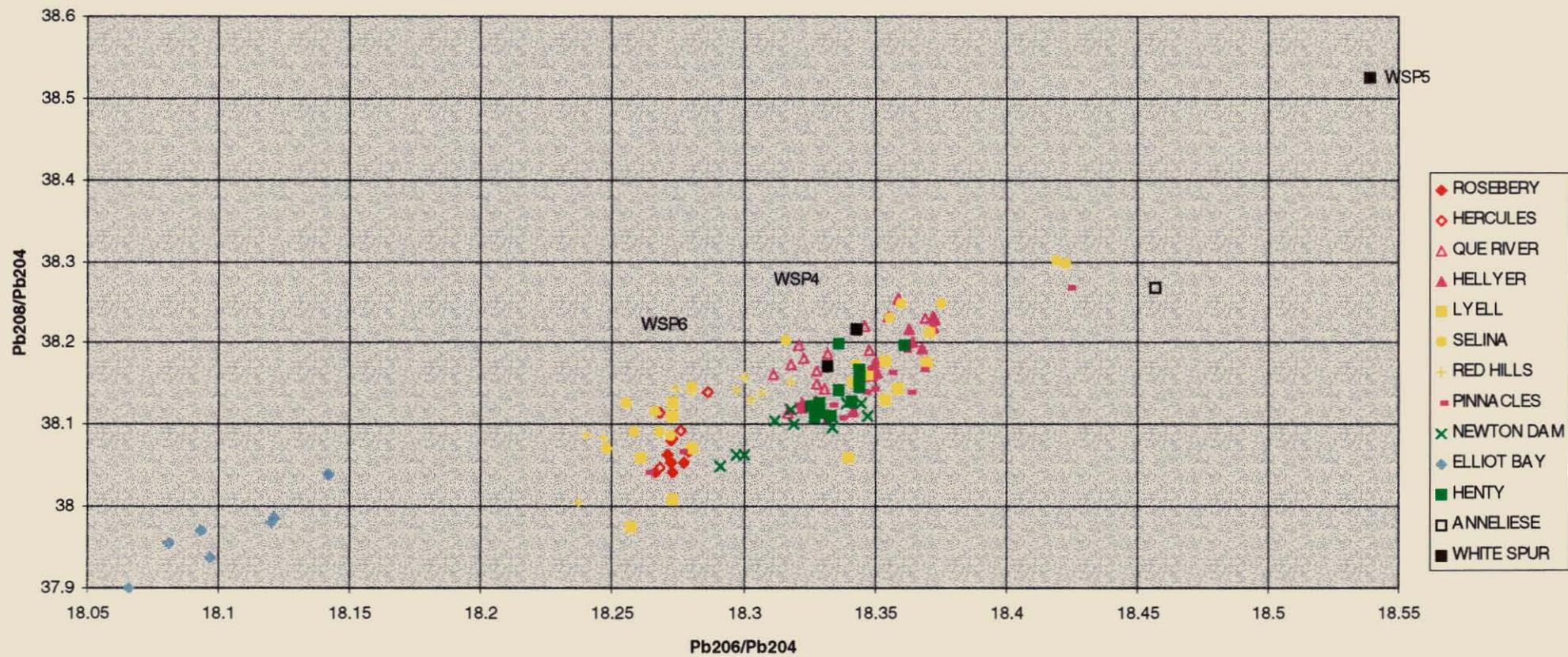
The galena vein from the WSP5 alteration is enigmatic. It is much more radiogenic than other Cambrian western Tasmanian VHMS mineralisation and is most similar to Post Cambrian mineralisation which has Pb206/Pb204 values that range from 18.43 to 18.6 and Pb208/Pb204 from 38.35 to 38.54 (Gulson and Porritt, 1987).

A study of the footwall alteration zone at the Hellyer Mine (Gemmell et al, 1990) has shown that sulphides present in the outer margins of the stringer system may also have a Pb isotopic signature that falls within the range of Post Devonian mineralisation. Such veins have Pb206/Pb204 and Pb208/Pb204 values of 18.425 and 38.367 compared to those from the Hellyer ore body which range from 18.322 to 18.373 and 38.117 to 38.232. Gemmell et al (1990) attribute the more radiogenic values reported in the outer margins of the stringer system to lead being derived from the ambient footwall rocks. Less radiogenic sulphides present in the ore and central parts of the stringer system were derived deeper Cambrian and possibly Pre-Cambrian sources.

In view of the high sulphur isotope values for the WSP5 alteration system, the Pb isotope value obtained from WSP5 is consistent with Gemmell et al's model. The degree of isotopic fractionation between the Hellyer ore and the outer margins of the stringer system is much less than observed for the WSP5 result and the Hercules and Rosebery deposits. The large variation in the latter results impedes rigorous comparison, however it is tentatively concluded that the radiogenic character of the WSP5 alteration system was inherited from ambient volcanic rocks in the distal portions of a hydrothermal convection system.

Figure 21

Tasmania VHMS Lead Isotope Results



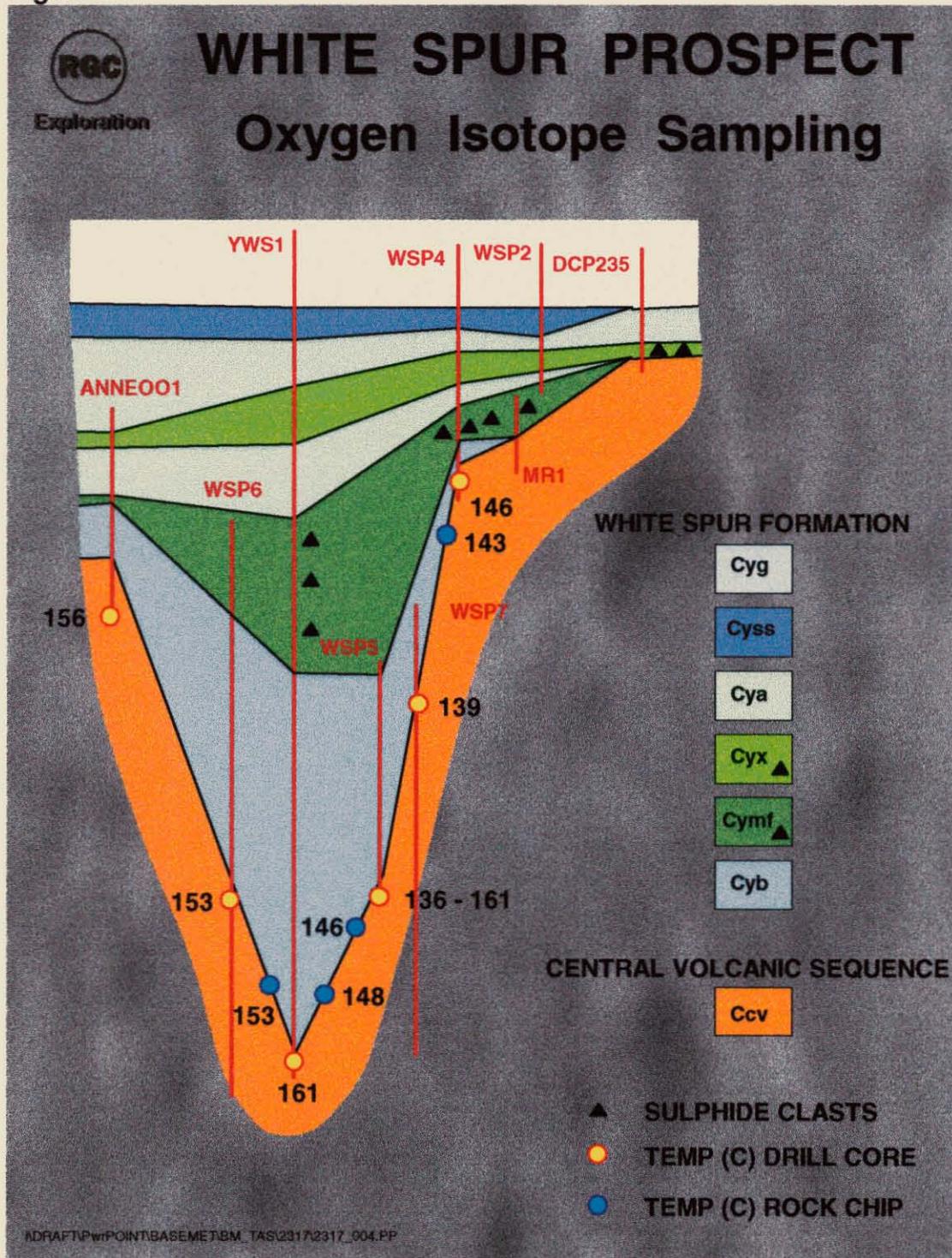
6.5.3 Oxygen Isotopes

Eight drill core samples and four rock samples were collected from the upper parts of the Central Volcanic Sequence within 15m of the contact with the overlying White Spur Formation. The samples were analysed for oxygen isotope analysis, whole rock analysis and quantitative XRD to provide a possible temperature vector towards mineralisation (Green et al, 1983).

The samples were submitted to Monash University for oxygen isotope analysis and to Amdel for whole rock analysis by ICP and quantitative XRD. The results are tabulated in Appendix 12.

By treating the results with a series of equations documented in Appendix 12 it is possible determine the temperature at which alteration occurred. The results ranged from about 139°C to about 161°C, suggestive of low temperature sea water dominated hydrothermal alteration (Green, 1992). Figure 22 is a schematic cross section that shows the spatial distribution of each sample with respect to its stratigraphic position. In general, there is no obvious zone of high temperature hydrothermal alteration indicated by the data.

Figure 22



6.6 GEOPHYSICS

6.6.1 IP and Resistivity Surveys

The historical EL 9/66 IP and Resistivity data over the White Spur area was collated and reprocessed. Images of the chargeability are presented as Plans 9 and 10.

The original grid based data was obtained from Scintrex in digital format. The old grid was digitised into AGM coordinates and the data transferred into MapInfo format for presentation. Most of the data was presented in the following annual report:- Walter and Brophy (1977), Walter (1978), Reid et al (1979) and Meares et al (1980).

6.6.1 CSAMT Survey

A controlled source audio-magnetotelluric (CSAMT) geophysical survey was conducted at White Spur in May-June 1997 by Zonge Engineering Pty Ltd using a Zonge GDP-16 receiver and a Zonge 30kW transmitter. A total of 23.5km of data on 16 east-west oriented lines were acquired. Data were collected at 50m station intervals on lines spaced 400m apart. The survey lines were designed to traverse the White Spur Formation and Central Volcanic Sequence contact.

Several anomalies have been identified which are worthy of additional follow-up. A detailed report by Chris Dauth is included in Appendix 17.

6.6.2 VLF-EM Survey

A Very Low Frequency (VLF) electromagnetic geophysical survey was conducted at White Spur in May-June 1997 using a WADI VLF receiver coupled to the NW Cape VLF communications transmitter. A total of 23.5km of data on 16 east-west oriented lines were acquired. Data were collected at 12.5m station intervals on lines spaced 400m apart. The survey lines were designed to traverse the White Spur Formation and Central Volcanic sequence contact.

A detailed report by Chris Dauth is included in Appendix 18.

6.6.1 Ground Magnetic Survey

A Ground magnetic geophysical survey was conducted at White Spur in May-June 1997 using a Geometrics G-856 magnetometer. A total of 23.5km of data on 16 east-west oriented lines were acquired. Data were collected at 5m station intervals on lines spaced 400m apart. The survey lines were designed to traverse the White Spur Formation and Central Volcanic Sequence contact.

A detailed report by Chris Dauth is included in Appendix 18.

6.6.1 DHEM Survey

Three component down hole electromagnetic surveys using the CRONE time-domain EM system were performed on holes WSP4 and WSP5 in July 1997. The surveys were conducted by Outer Rim Exploration.

The results are presented in detail in Appendix 16.

No off hole conductor was evident from the DHEM survey of WSP4 with most of the response attributed to black siltstone horizons within the White Spur Formation.

A weak off hole conductor was evident in the DHEM survey of WSP5 however the cause of this anomaly is not clear. Computer modelling of the anomaly by Chris Dauth has indicated the conductive centre to be down dip and to the north of the WSP5 intersection. Drill holes WSP7 and WSP8 were drilled to test the anomaly.

Instrument failure prevented WSP6 from being surveyed.

A second program of DHEM surveys were performed in January - February 1998. The holes surveyed include WSP5, WSP7, WSP8, WSP9 and WSP11. The results for this survey are not presently available and will be reported in detail in the 1998 - 99 annual report.

6.6.6 Magnetic Susceptibility Measurements

Magnetic susceptibility measurements are routinely measured at 1m intervals on all diamond drill core.

The results for drill holes WSP4, WSP5, WSP6, WSP7, WSP8, WSP9, WSP10, WSP11 and WSP12 are presented in Appendix 19.

6.7 Other Work

Rod Allen of Volcanic Resources Limited was employed to make two detailed reviews of the White Spur project in April 1997 and February 1998. Reports resulting from these visits are presented in Appendices 13 and 14.

Wally Herrmann of Walter Herrmann Geoscience Pty Ltd made a one week long review of all RGC's Tasmanian Projects and current exploration philosophies in May 1988. The section of his report pertaining to the White Spur EL is presented in Appendix 15.

The exploration at White Spur in 1997-98 was designed to create a fence of drill holes with a spacing about 800m apart along the strike extent of the White Spur Formation - Central Volcanic Sequence contact. The aim of this program was to use geology, geochemistry and geophysics to identify areas that required additional follow up testing. WSP4 was targeted at the favourable horizon to the north of an inferred Cambrian growth structure located at about 5361400mN. To the south of this northing there is pronounced thickening of the basal White spur Formation reflecting deposition within a small fault bounded sub-graben. WSP5 was drilled to test the target horizon to the south of the growth fault. WSP6 was drilled to provide geological information in the south of the sub-graben between drill hole YWS1 and ANNE001.

A significant alteration zone was located at the White Spur Formation - Central Volcanic Sequence contact in WSP5 and returned assay of 17m at 0.77% Zn and 0.4% Pb. A subsequent DHEM survey of WSP5 located an off-hole conductor which was coincident with a CSAMT and DIGHEM anomaly. A sulphur and lead isotope study has shown that WSP5 intersection is consistent with the results of studies from the outer margins of typical VHMS footwall stringer system about 500m from the ore.

Drill hole WSP7 was designed to test this anomaly. The hole was collared about 100m south of the inferred growth structure which was considered to be a possible feeder for the transport and focus of hydrothermal fluids. The hole failed to test to target horizon due to faulting.

A second hole (WSP8) was drilled approximately mid way between WSP7 and WSP5. The hole intersected a thin moderately altered zone at the top of the Central Volcanic Sequence which assayed 2.8m at 0.7% Zn and 0.25 Pb. A pyrrhotite rich black siltstone was considered to be the source of the combined geophysical anomaly.

Drill holes WSP9 and WSP10 were drilled to define the southern continuation and down dip potential of the WSP5 alteration zone. The results of which have yet to be fully analysed.

An additional two drill hole WSP11 and WSP12 tested the Central Volcanic Sequence - White Spur Formation contact in the north of the EL.

The current exploration program has been successful in delineating a zone of anomalous base metal mineralisation close to an inferred Cambrian growth fault. Drilling along strike and down dip of this zone has failed to locate a high grade zone of mineralisation however recent DHEM surveys suggest a off hole conductor is present down dip of the existing drilling. It is uncertain whether WSP10 intersected this feature.

Future exploration at White Spur should involve the following:-

- 1) Further geological and geophysical investigations of the WSP5 intersection,
- 2) Field checking of several unexplained CSAMT anomalies, and
- 3) Evaluation of the Jones Creek area.

8. REFERENCES

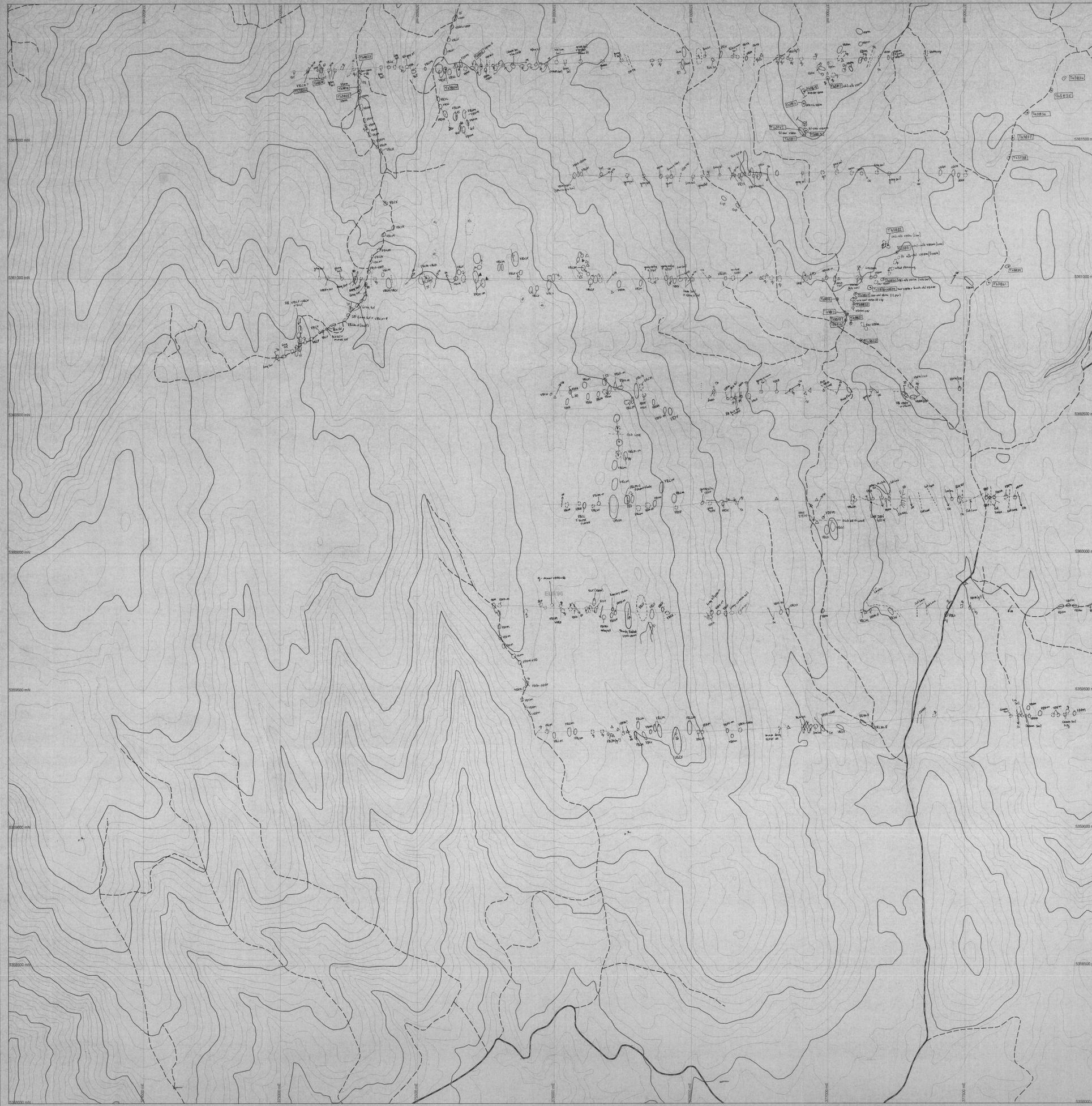
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PLANS

LIST OF PLANS

		Scale
PLAN 1	Map sheet 54. Moores Pimple Outcrop Geology	1:5000
PLAN 2	Map sheet 53. White Spur Outcrop Geology	1:5000
PLAN 3	Map sheet 54. Moores Pimple Geological Interpretation	1:5000
PLAN 4	Map sheet 53. White Spur Geological Interpretation	1:5000
PLAN 5	Stratigraphic correlation in the White Spur area	
PLAN 6	White Spur Project - Cross sections	
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PLAN 9	Map sheet 54. Moores Pimple 1978 IP Survey - Chargeability	1:5000
PLAN 10	Map sheet 53. White Spur 1978 IP Survey - Chargeability	1:5000



- CO1c Mainly pink to cream coloured, thickly bedded pebble-cobble to cobble-boulder conglomerate. Includes a lower unit of interbedded conglomerate & sandstones (CO1c1).
- CO1c2 Mainly pink to cream coloured, thickly bedded pebble-cobble to cobble-boulder conglomerate. Includes a lower unit of interbedded conglomerate & sandstones (CO1c1).
- CO1c3 Mainly pink to cream coloured, thickly bedded pebble-cobble to cobble-boulder conglomerate - Newton Creek Sandstone.
- CO1c4 Mainly thin bedded siltstone, quartzitic sandstone & pebbly sandstone with bands of pebble conglomerate - Newton Creek Sandstone.
- CO1c5 Mainly pebble conglomerate with minor thin bedded quartzitic sandstone & pebbly sandstone - Newton Creek Sandstone.
- CO1c6 Mainly volcanoclastic conglomerate with minor siltstone and volcanoclastic sandstone.
- CO1c7 Bedded sandstone - siltstone units.
- CO1c8 Mainly crystal-rich volcanic sandstone (quartz-feldspar phytic). Comstock Tuff and correlates.
- CO1c9 Chert rich mass flow horizon. Basal unit to Comstock Tuff.
- CO1c10 Crystal-rich volcanic sandstone (feldspar-pyroxene phytic), lithic-rich bases with minor ash, sandstone & limestone. Lynchford Tuff & correlates.
- CO1c11 Quartz phytic lava & tuff. Possibly equivalent to Lower Tyndal Group.
- CO1c12 Quartz-feldspar phytic lava.
- CO1c13 Sulphide Lenses.
- CO1c14 Andesitic to basaltic intrusive bodies with lavas & clastic units. Includes feldspar-hornblende-pyroxene-phyric & feldspar-pyroxene phytic types & small chlorite altered dykes. Thinly bedded black pyrite siltstone.
- CO1c15 Andesitic to basaltic clastic units.
- CO1c16 Basalt: Henry Dyke Swarm.
- CO1c17 Interbedded basaltic lava & volcanoclastic sediments.
- CO1c18 Interbedded dacitic volcanoclastic sandstone and siltstone.
- CO1c19 Mainly felsic pyroclastic rocks, dominantly feldspar phytic, including pumice bearing tuff & breccia; crystal rich tuff, vitric tuff & minor druse & sandstone.
- CO1c20 Mainly felsic feldspar phytic lava and intrusives, massive to flow banded or auto-brecciated, with rare columnar jointing.
- CO1c21 Units of bedded siltstone, sandstone, tuff & agglomerate.
- CO1c22 Undifferentiated mafic flows, sandstones & black siltstones.
- CO1c23 Ashy siltstone.
- CO1c24 Felsic porphyry bodies, intrusive & partly extrusive.
- CO1c25 Units of bedded siltstone, sandstone.
- CO1c26 Black siltstone.
- CO1c27 Dominantly greywacke & mudstone with some interbedded vitric tuff, crystal tuff & crystal-lithic tuff.
- CO1c28 Interbedded vitric tuff, crystal tuff, siltstone, slate, sandstone & agglomerate.
- CO1c29 Volcanoclastics.
- CO1c30 Undifferentiated Lower White Spur Formation.
- CO1c31 Crystal rich volcanoclastic sandstone.

- Geological boundary - accurate
- Geological boundary - inferred
- Fold feature
- Fault - normal
- Fault - strike
- Concordant Fault
- Unconsolidated Mine
- Open Cut Mine
- Mineal Deposit
- Mineal occurrence
- Prospect, explorer
- Abandoned Mine
- Soil or peatland area
- Homestead (Pastoral)
- Building
- Railway Station
- Beacon, Lighthouse
- Airport or Aerodrome
- Slope
- Road tunnel
- Monument, Obelisk, Cross
- Landmark Object
- Named Relief Feature
- Mountain or mountain range
- Pass
- Off-Entrance Breakaway
- Sand Ridge or Sand Dunes
- Spur, Spur bar
- Road
- Platform
- Valley
- Gully, Gop
- Clare Creek
- Island
- River
- Pool, Pond, Reservoir, Reservoir
- Swamp
- Wetland
- Dam
- Boing
- Ford
- Watercourse
- Perennial Lake
- Highway
- Secondary Road
- Minor Road
- Water Race
- Railway
- Landing Ground
- Platform
- Contour line
- Watercourse
- Perennial Lake



0 250 500 1000

Scale 1 : 5 000

Distances in Metres
Major Contour Interval 50m
Minor Contour Interval 10m
AMG Zone 95



1 : 5 000 Sheet Index

Copper Knob 55	Mount Road 34	13
Moon's Pimple 54	Henley 33	The Red Hills 12
	Mount Julia 32	Julie Peak 11
Howard's Road 52	31	Mount Tyndall 10
Henley Gorge 51	Pools Hill 30	The Bastion 9



Mt Read Volcanics Belt Tasmania

SHEET 53 White Spur

Outcrop Geology

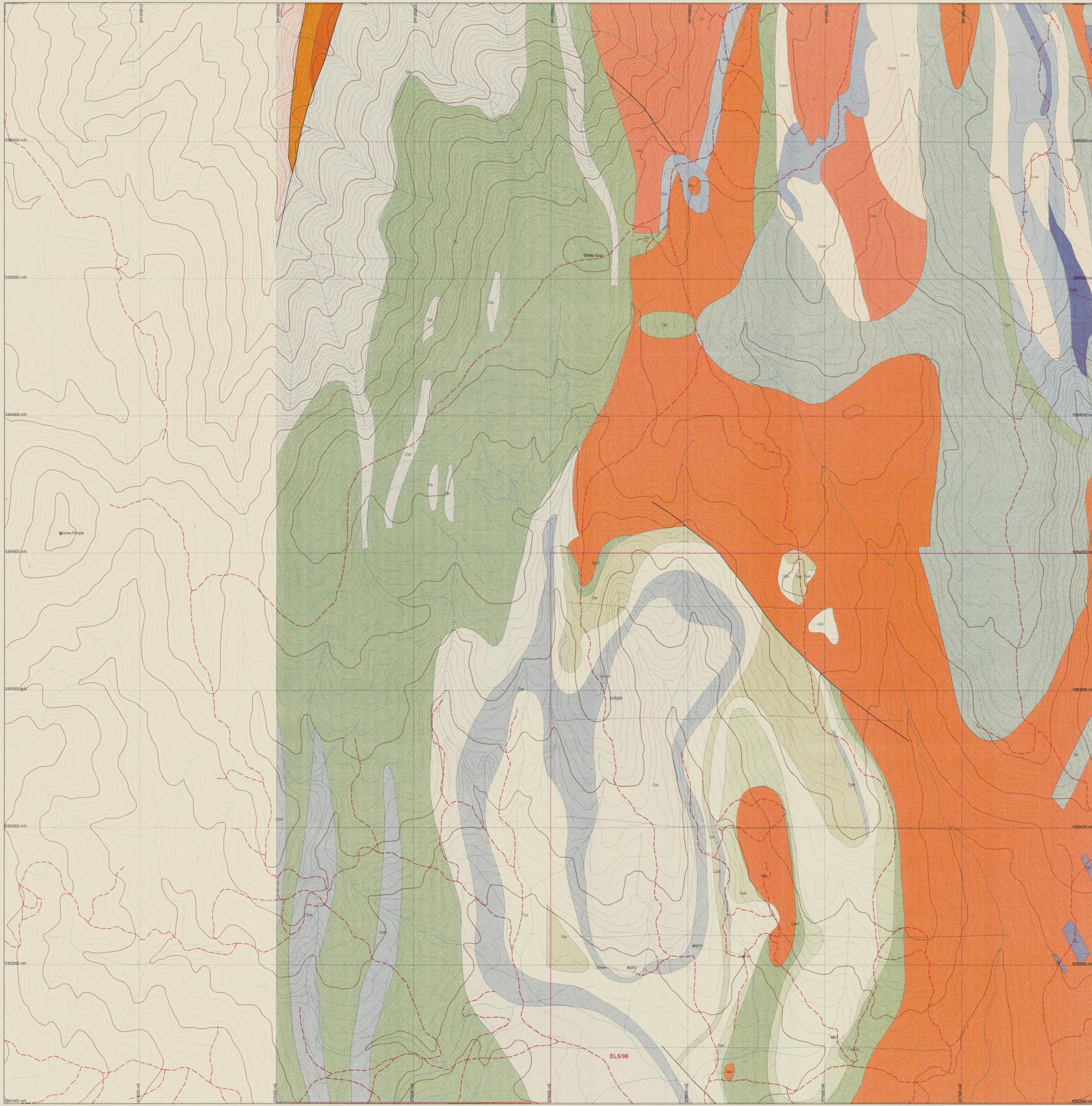
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Date: August 1997

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PLAN 2

98-4128
 ANNUAL REPORT FOR THE
 WHITE SPUR VOLCANIC BELT
 MOUNT JULIA



- Undifferentiated Quaternary sediments
- Boulderly mudstone, sandstone & siltstone
- Quartzwacke interbedded with black phyllitic mudstone, grey siltstone & minor conglomerate. Includes some units of dominantly siltstone (C0qs)
- Dominantly siltstone and sandstone with minor conglomerate.
- Felsic tuff and agglomerate, generally quartz - feldspar phryic.
- Basalt, Henty Dyke Swarm
- Mainly felsic pyroclastic rocks, dominantly feldspar phryic, including pumice bearing tuff & breccia, crystal vitric tuff, vitric tuff & minor shale & sandstone
- Flame-bearing eutaxitic tuff of ignimbrite type. Some block-&-ash flow units shown (C0vb)
- Crystal tuff, crystal-lithic tuff, commonly bedded.
- Fine grained vitric tuff.
- Units of bedded siltstone, sandstone, tuff & agglomerate
- Undifferentiated massflows, sandstones & black siltstones
- Ashy siltstone
- Units of bedded siltstone, sandstone
- Black siltstone
- Dominantly greywacke & mudstone with some interbedded vitric tuff, crystal tuff & crystal-lithic tuff
- Volcaniclastics
- Crystal rich volcaniclastics sandstone
- Rhyolitic-dacitic volcaniclastic sandstone
- Rhyolitic-dacitic massflows, commonly graded
- Quartz feldspar porphyry
- Spherulitic dacitic intrusive
- Gabbro

- Geological boundary, accurate
- Geological boundary, inferred
- Fault feature
- Fault, zoned/accurate
- Inferred Fault
- Concealed Fault
- Underground Mine
- Open Cut Mine
- Mineral Deposit
- Mineral occurrence
- Prospect, explored
- Abandoned Mine
- Bull up populated area
- Homestead (Pastoral)
- Building
- Railway Station
- Beacon, Lighthouse
- Airport or Airbase
- Bridge
- Road tunnel
- Monument, Statue, Cross
- Landmark Object
- Named Relief Feature
- Mountain or mountain range
- Pass
- Cliff, Escarpment, Breakaway
- Sand Ridge or Sand Dunes
- Spur, Spur line
- Rock
- Pinnacle
- Valley
- Gully, Gap
- Cave, Cavern
- Island
- Reef
- Reef, Pinn. Waterhole, Rockhole
- Swamp
- Waterfall
- Dam
- Spring
- Fort
- Monic Misting Post
- Highway
- Secondary Road
- Mine Road
- Vehicle Track
- Runway
- Landing Ground
- Powerline
- Contour line
- Watercourse
- Perennial Lake



0 250 500 1000

Scale 1 : 5 000

Distances in Metres
Major Contour Interval 50m
Minor Contour Interval 10m
AMG Zone 55

1 : 5 000 Sheet Index

Colebrook Hill 56	Rosbery 35	Mt Murchison 14
Copper Knob 55	Mount Road 34	13
Moore's Pimple 54	Henty 33	The Red Hills 12
White Spur 53	Mount Julia 32	Julia Peak 11
Howard's Road 52	31	Mount Tyndall 10

RGCE Exploration

**Mt Read Volcanics Belt
Tasmania**

**SHEET 54
Moore's Pimple**

GEOLOGICAL INTERPRETATION

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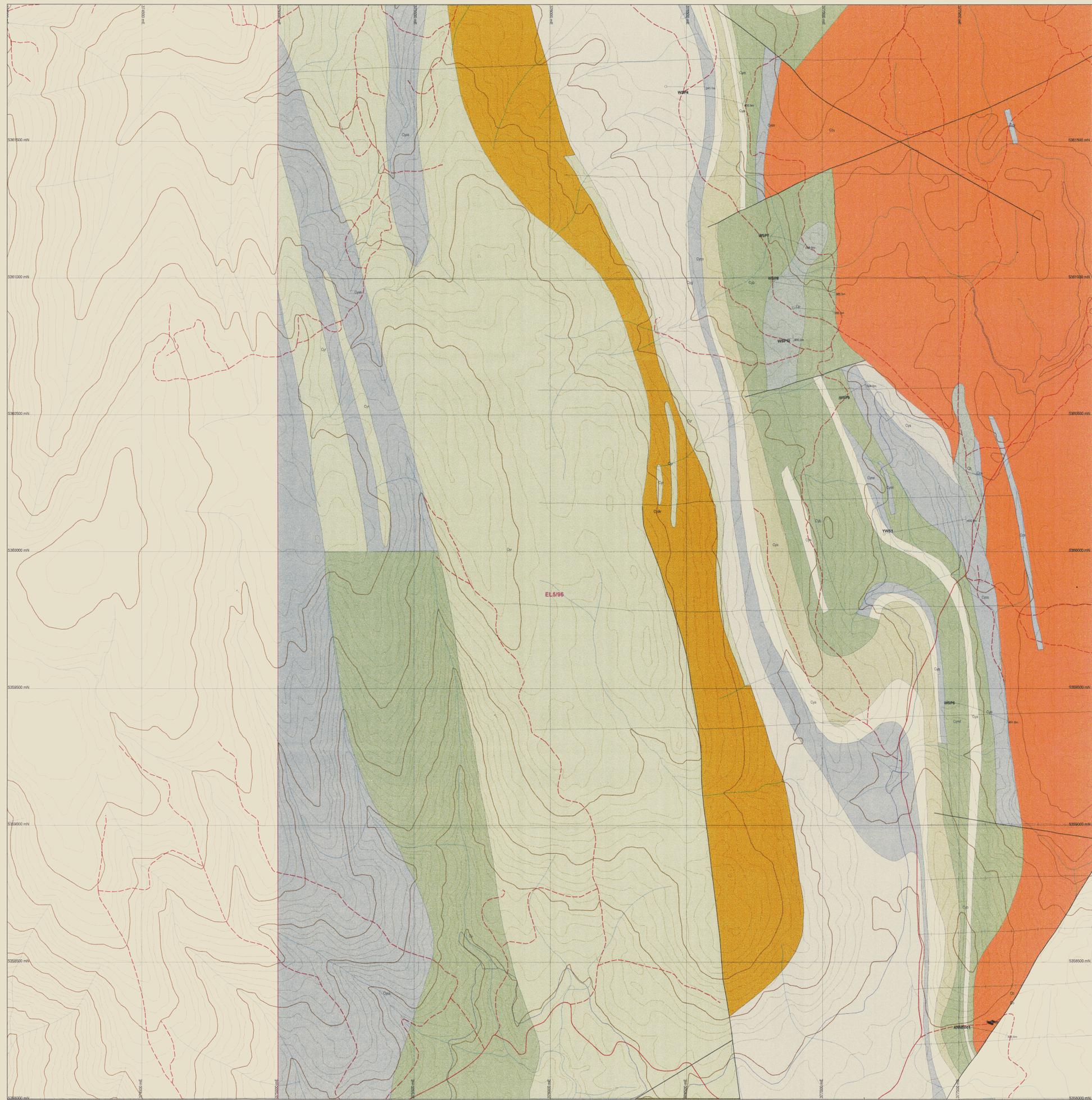
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PLAN 3

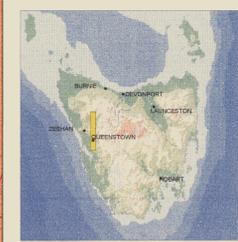
98-4128

ANNUAL REPORT 1996
WHITE SULPHUR EXP.
NAVIGY



- Sulphide Lenses
- Basalt, Herby Dyke Swarm
- Mainly felsic pyroclastic rocks, dominantly feldspar phytic, including pumice bearing tuff & breccia, crystal vitric tuff, vitric tuff & minor shale & sandstone
- Units of bedded siltstone, sandstone, tuff & agglomerate
- Undifferentiated massflows, sandstones & black siltstones
- Quartz - feldspar phytic rhyolitic volcaniclastic sediments
- Ashy siltstone
- Units of bedded siltstone, sandstone
- Black siltstone
- Dominantly greywacke & mudstone with some interbedded vitric tuff, crystal tuff & crystal-siltic tuff
- Feldspar - (quartz) phytic dacite volcaniclastic sediments
- Undifferentiated Lower White Spur Formation
- Crystal rich volcaniclastic sandstone
- Rhyolite-dacite volcaniclastic sandstone
- Rhyolite-dacite massflows, commonly graded
- Siltstone, sandstone & greywacke
- Chert, siliceous siltstone / hematisic siltstone
- Quartz feldspar porphyry
- Ultramafics

- Geological boundary, accurate
- Geological boundary, inferred
- Fault feature
- Fault, position accurate
- Inferred Fault
- Concealed Fault
- Underground Mine
- Open Cut Mine
- Mineral Deposit
- Mineral occurrence
- Prospect, explored
- Abandoned Mine
- Built up populated area
- Homestead (Pastoral)
- Building
- Railway Station
- Beacon, Lighthouse
- Airport or Aerodrome
- Bridge
- Road tunnel
- Monument, Statue, Cross
- Landmark Object
- Named Relief Feature
- Mountain or mountain range
- Pass
- Cliff, Escarpment, Breakaway
- Sand Ridge or Sand Dunes
- Spur, Spur line
- Rock
- Pileup
- Valley
- Gully, Gap
- Cave, Cavern
- Island
- Pier
- Post, Post, Watermark, Rockhole
- Swamp
- Waterfall
- Dam
- Spring
- Fault
- Marine, Mooring Pier, Pier
- Highway
- Secondary Road
- Minor Road
- Vehicle Track
- Runway
- Landing Ground
- Pipeline
- Contour line
- Watercourse
- Perennial Lake



0 250 500 1000
Scale 1 : 5 000
 Distances in Metres
 Major Contour Interval 50m
 Minor Contour Interval 10m
 AMG Zone 55

1 : 5 000 Sheet Index

Copper Knob 55	Mount Road 34	13
Moons Pimple 54	Henry 33	The Red Hills 12
White Spur 53	Mount Julia 32	Julia Peak 11
Howard's Road 52	31	Mount Tyndall 10
Henry Gorge 51	Poets Hill 30	The Bastion 9

RGC Exploration

Mt Read Volcanics Belt Tasmania

SHEET 53 White Spur

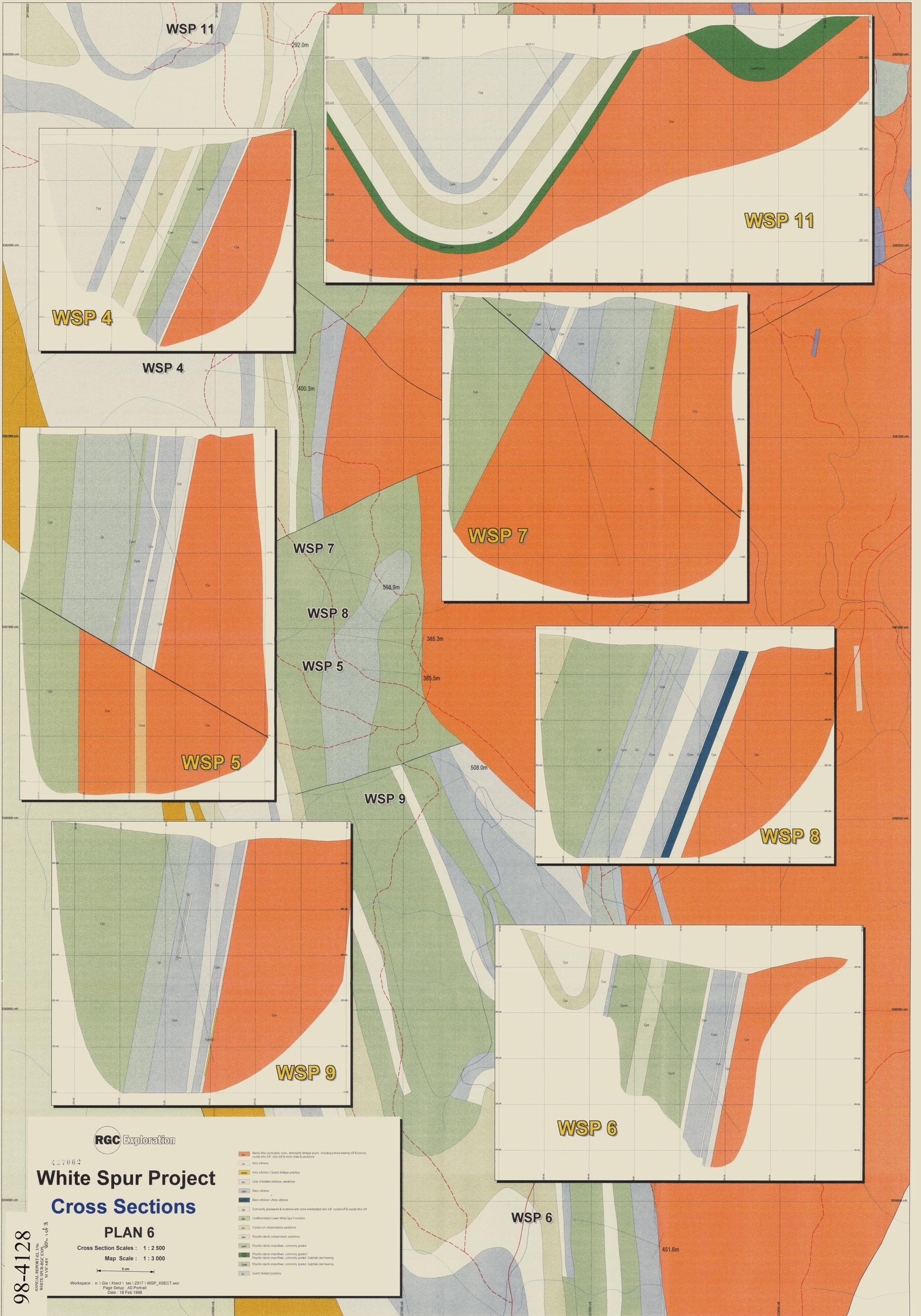
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**427060
PLAN 4**



RGC Exploration

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White Spur Project Cross Sections

PLAN 6

Cross Section Scales : 1 : 2 500

Map Scale : 1 : 3 000

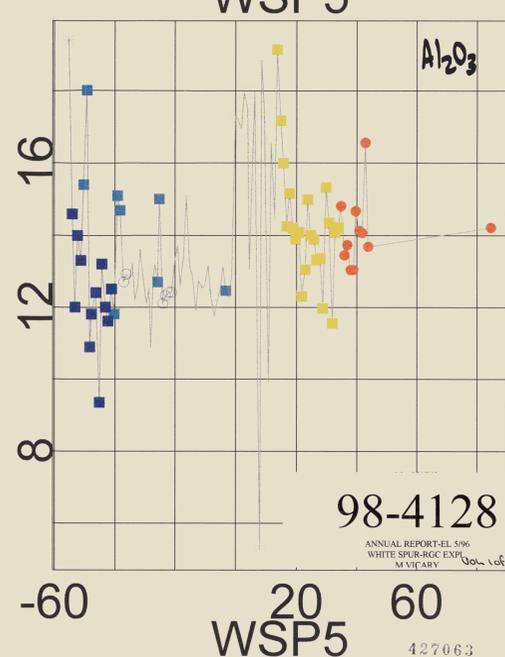
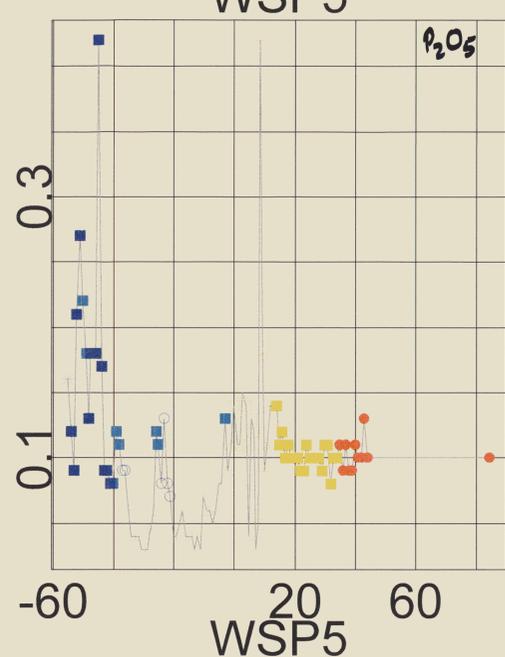
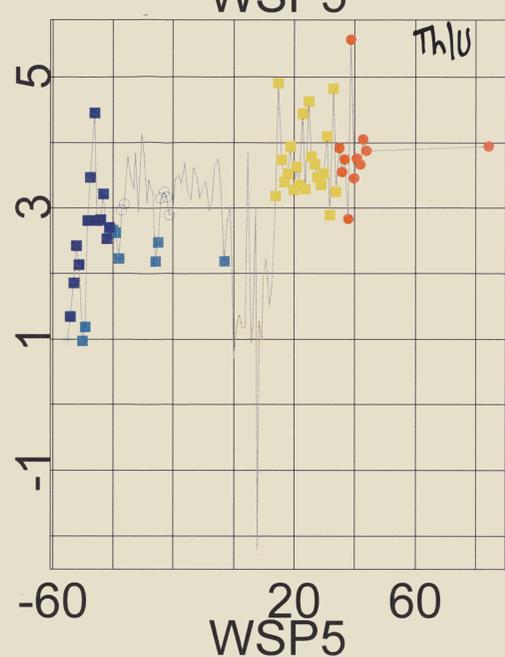
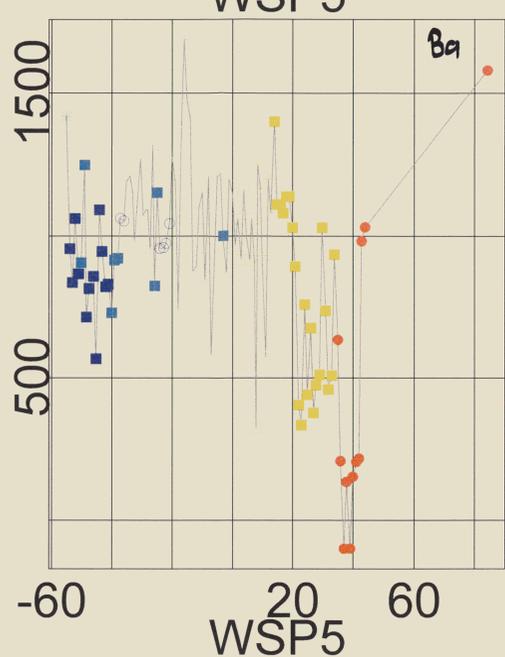
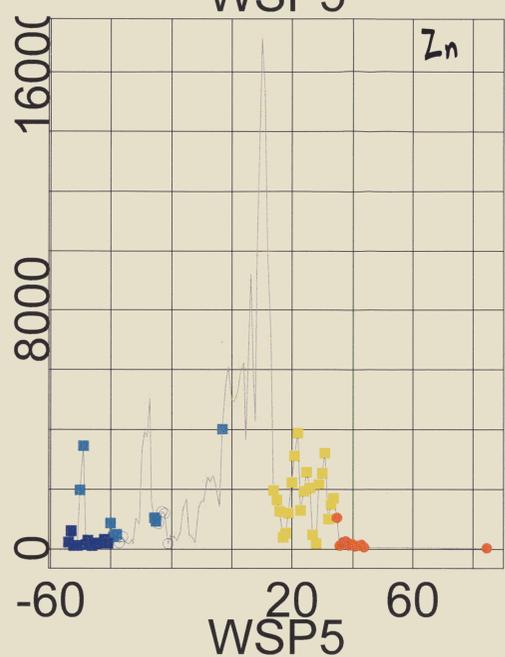
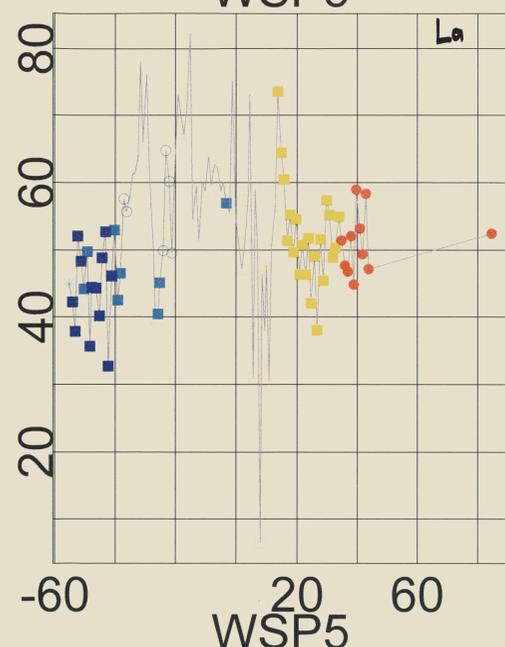
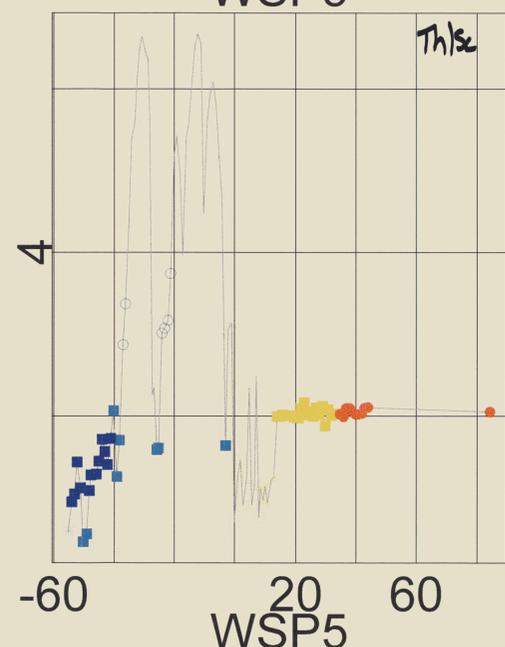
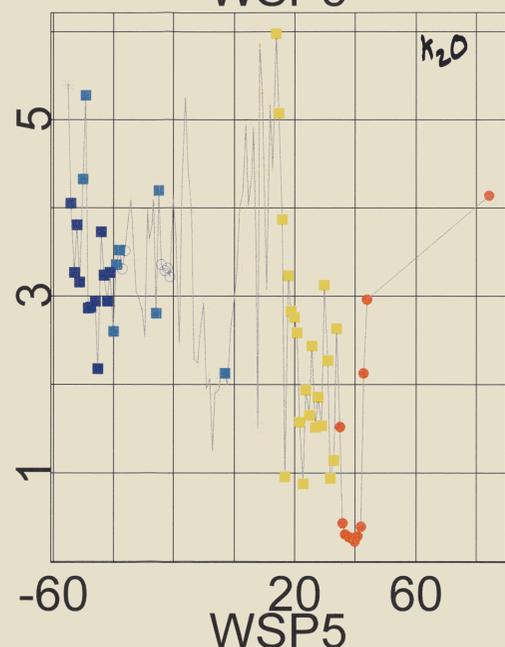
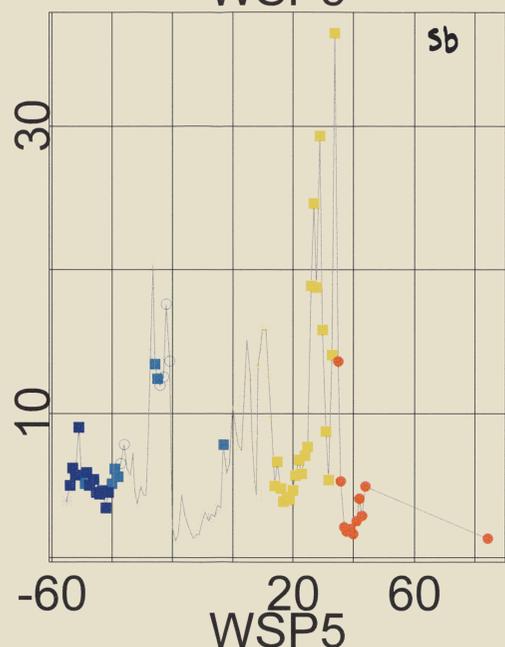
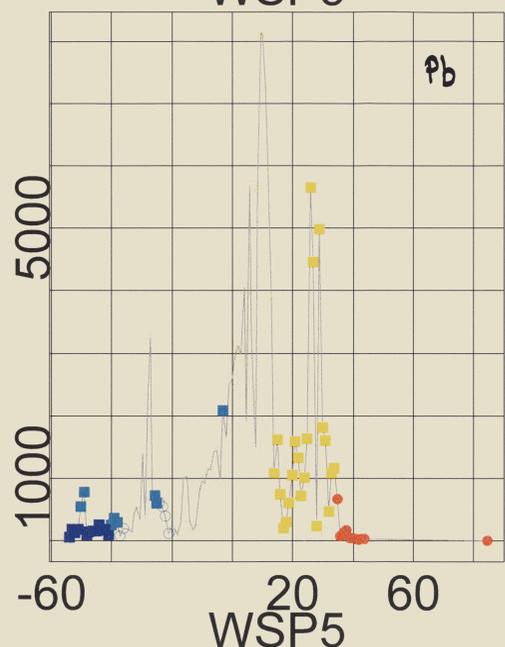
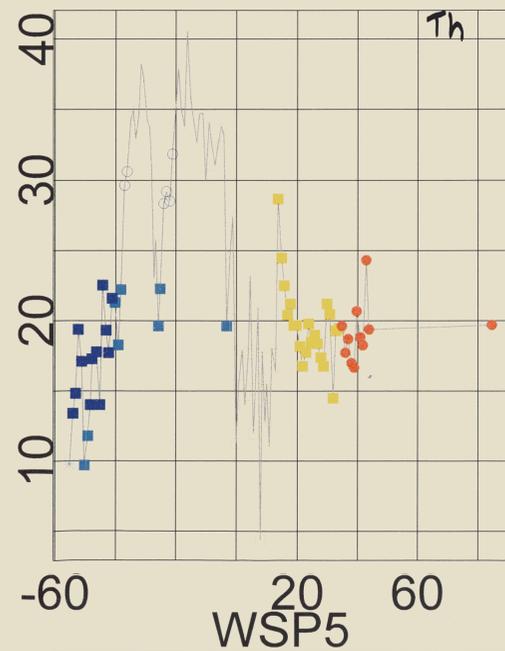
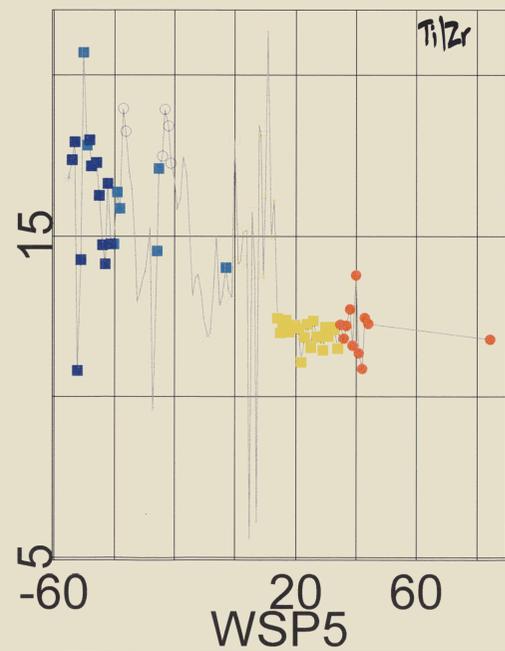
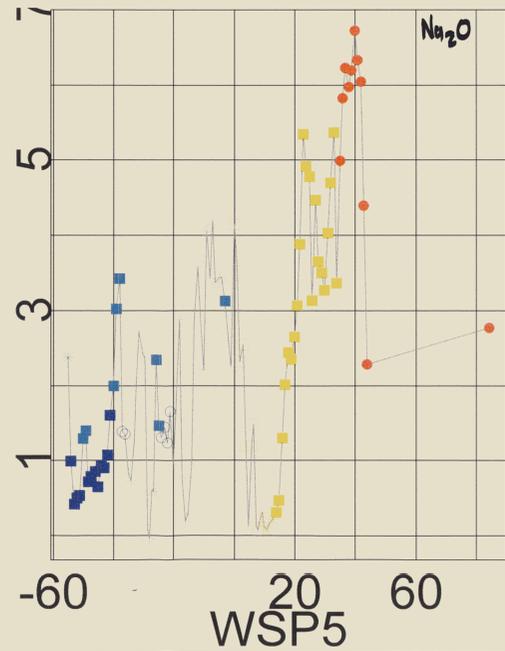
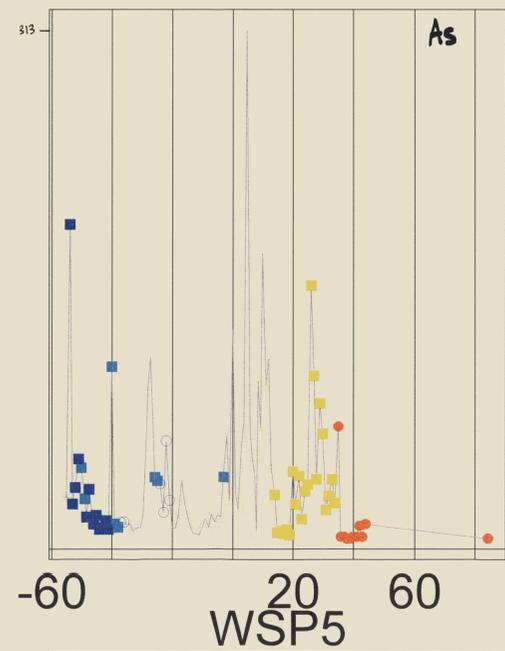
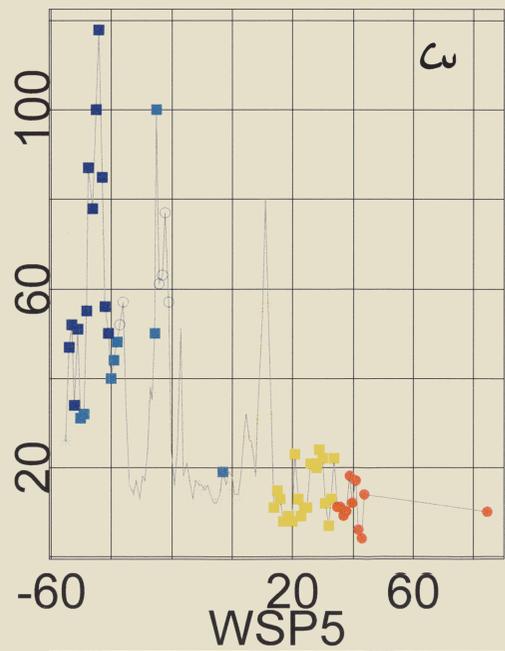
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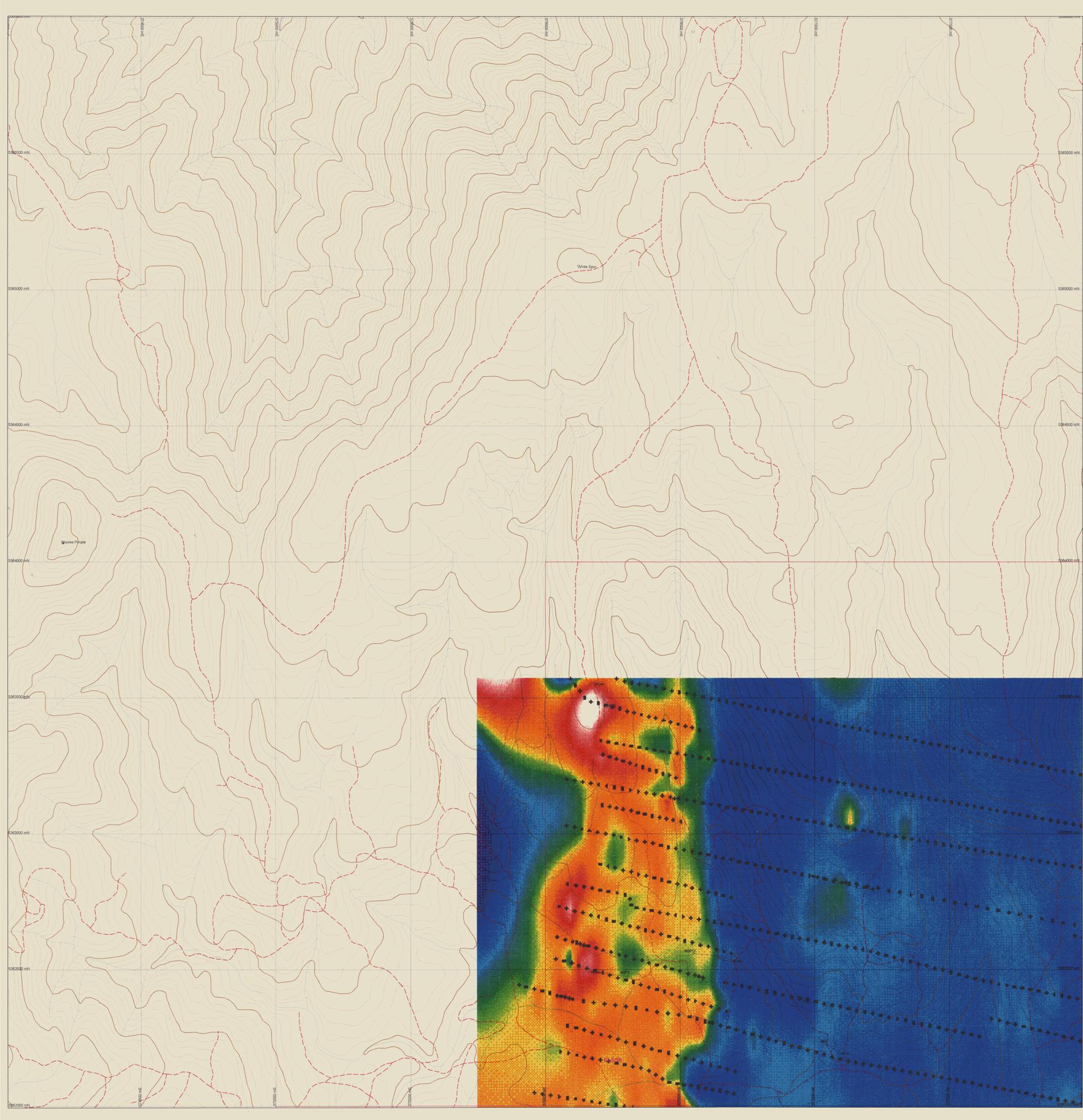
- Mainly felsic pyroclastic rocks, dominantly felsic phytic, including gneiss bearing tuff & breccia, crystal rich tuff, siliceous tuff & minor shale & sandstone
- Ashy siltstone
- Ashy siltstone / Quartz feldspar porphyry
- Units of bedded siltstone, sandstone
- Black siltstone
- Black siltstone / Ashy siltstone
- Dominantly greywacke & mudstone with some interbedded siliceous tuff, crystal tuff & crystal tuff breccia
- Undifferentiated Lower White Spur Formation
- Crystal rich volcanoclastic sandstone
- Rhyolite-dacite volcanoclastic sandstone
- Rhyolite-dacite massflows, commonly graded
- Rhyolite-dacite massflows, commonly graded /
- Rhyolite-dacite massflows, commonly graded / Subglacial debris bearing
- Rhyolite-dacite massflows, commonly graded / Subglacial debris bearing
- Quartz feldspar porphyry

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WHITE SPUR-RCR EXPL
M.V. ARV
Box 1 of 3



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ANNUAL REPORT-EL 596
WHITE SPUR-RGC EXP
M/V/ARY Nov. 1993



- Undifferentiated Quaternary sediments
- Boulderly mudstone, sandstone & siltstone
- Quartzwacke interbedded with black phyllitic mudstone, grey siltstone & minor conglomerate. Includes some units of dominantly siltstone (C0qs)
- Dominantly siltstone and sandstone with minor conglomerate.
- Felsic tuff and agglomerate, generally quartz - feldspar phryic.
- Basalt, Henty Dyke Swarm
- Mainly felsic pyroclastic rocks, dominantly feldspar phryic, including pumice bearing tuff & breccia, crystal vitric tuff, vitric tuff & minor shale & sandstone
- Flamme-bearing eutaxitic tuff of ignimbrite type. Some block-&-ash flow units shown (Cvib)
- Crystal tuff, crystal-lithic tuff, commonly bedded.
- Fine grained vitric tuff.
- Units of bedded siltstone, sandstone, tuff & agglomerate
- Undifferentiated massflows, sandstones & black siltstones
- Ashy siltstone
- Units of bedded siltstone, sandstone
- Black siltstone
- Dominantly greywacke & mudstone with some interbedded vitric tuff, crystal tuff & crystal-lithic tuff
- Volcaniclastics
- Crystal rich volcaniclastics sandstone
- Rhyolitic-dacitic volcaniclastic sandstone
- Rhyolitic-dacitic massflows, commonly graded
- Quartz feldspar porphyry
- Spherulitic dacitic intrusive
- Gabbro

- Geological boundary, accurate
- Geological boundary, inferred
- Foot feature
- Fault, position accurate
- Inferred Fault
- Crossed Fault
- Underground Mine
- Open Cut Mine
- Mineral Deposit
- Mineral occurrence
- Prospect, explored
- Abandoned Mine
- Built up populated area
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- Mountain or mountain range
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- Cliff Escarpment, Breakaway
- Beacon, Lighthouse
- Sand Ridge or Sand Dunes
- Spur, Spur line
- Rock
- Plateau
- Valley
- Gully, Gap
- Cave, Cavern
- Island
- Pier
- Foot, Road, Waterfall, Rockface
- Swamp
- Waterfall
- Dam
- Spring
- Marina, Mooring Post, Port
- Highway
- Secondary Road
- Minor Road
- Vehicle Track
- Runway
- Landing Ground
- Pasture
- Contour line
- Road
- Watercourse
- Potential Lake



Scale 1 : 5 000
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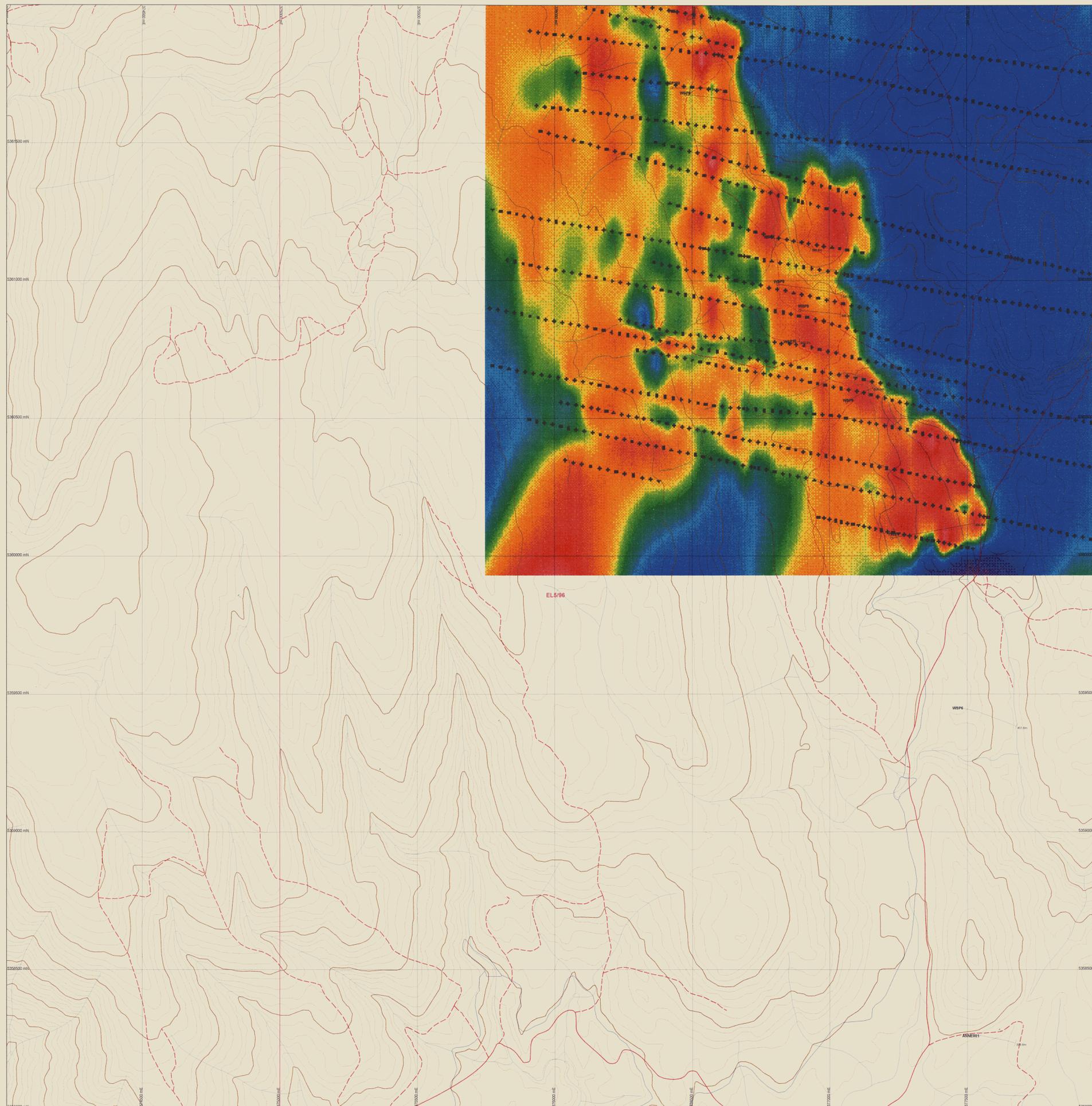


**Mt Read Volcanics Belt
 Tasmania 98-4128**

**SHEET 54
 Moore's Pimple**

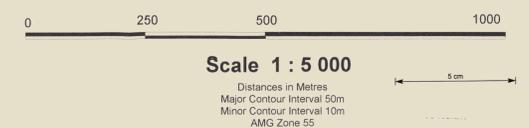
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- Sulphide Lenses
- Basalt, Henly Dyke Swarm
- Mainly felsic pyroclastic rocks, dominantly feldspar phyric, including pumice bearing tuff & breccia, crystal vitric tuff, vitric tuff & minor shale & sandstone
- Units of bedded siltstone, sandstone, tuff & agglomerate
- Undifferentiated massflows, sandstones & black siltstones
- Quartz - feldspar phyric rhyolitic volcanoclastic sediments
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- Bridge
- Road tunnel
- Monument, Station, Cross
- Landmark Object
- Named Relief Feature
- Mountain or mountain range
- Pass
- Cliff, Escarpment, Breakaway
- Sand Ridge or Sand Dunes
- Spur, Spur line
- Rock
- Plateau
- Valley
- Gully, Gap
- Civic Claim
- Island
- Pier
- Pier, Pier, Wharves, Roadside
- Swamp
- Waterfall
- Dam
- Spring
- Ford
- Marina Mooring Pier, Post
- Highway
- Secondary Road
- Minor Road
- Vehicle Track
- Railway
- Landing Ground
- Powerline
- Contour line
- Watercourse
- Perennial Lake



1 : 5 000 Sheet Index

Copper Knob 55	Mount Read 34	13
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White Spur 53	Mount Julia 52	Julia Peak 11
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Henly Gorge 51	Post's Hill 30	The Bastion 9

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WHITE SPUR-RGC EXPL.
M.VICARY



Mt Read Volcanics Belt Tasmania

SHEET 53 White Spur

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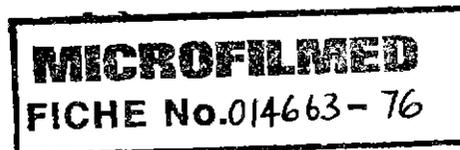
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ANNUAL REPORT
MARCH 1997 - MARCH 1998

TASMANIAN BASE METALS PROJECT
EL 5/96

WHITE SPUR

Vol 2 of 3
Appendices 1 to 15



HELD BY: RENISON LIMITED

MANAGER & OPERATOR: RGC EXPLORATION PTY LTD

AUTHOR(s): Michael Vicary

19 March, 1998

PROSPECTS: White Spur, Anneliese

MAP SHEETS:

**1:25,000: Dundas
Oceana**

1:100,000: Spohia

GEOGRAPHIC COORDS

**Min East: 375 000 mE
Min North: 5358 000 mN**

**Max East: 379 000 mE
Max North: 5364 000 mN**

COMMODITY(s): Zn, Pb, Cu, Au, Ag

KEY WORDS: White Spur Formation, Central Volcanic Sequence, Sulphide clast bearing mass flow deposits, Rosebery -Hercules ore horizon.

Distribution:

- o RGC Exploration Information Centre Reference:
- o RGC Exploration - Zeehan
- Department of Mines, Tasmania

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- APPENDIX 1** Symbols and codes used in drill logs
- APPENDIX 2** WSP4 Drill log and assays
- APPENDIX 3** WSP5 Drill log and assays
- APPENDIX 4** WSP6 Drill log and assays
- APPENDIX 5** WSP7 Drill log and assays
- APPENDIX 6** WSP8 Drill log and assays
- APPENDIX 7** WSP9 Drill log and assays
- APPENDIX 8** WSP10 Drill log and assays
- APPENDIX 9** WSP11 Drill log and assays
- APPENDIX 10** WSP12 Drill log and assays
- APPENDIX 11** Rock Chip Assays
- APPENDIX 12** Isotope Analyses
- APPENDIX 13** Rod Allen's Report
- APPENDIX 14** Rod Allen's 2nd Report
- APPENDIX 15** Wally Herrmann's Report

APPENDIX 1

Symbols and Codes used in drill logs

RGC EXPLORATION (ZEEHAN) - ROCK CODES

TYPE

- U - Volcanic (general)
- V - Volcaniclastic
- E - Epiclastic
- L - Lava
- I - Intrusive

COMPOSITION

- R - Rhyolite
- Y - Rhyodacite
- D - Dacite
- A - Andesite
- B - Basaltic
- F - Felsic
- M - Mafic
- U - Ultramafic

CRYSTAL TYPE

- X - Crystal rich
- A - Aphyric
- F - Feldspar phyrlic
- < - Feldspar - quartz phyrlic
- > - Quartz - feldspar phyrlic
- Q - Quartz phyrlic
- H - Hornblende phyrlic
- P - Pyroxene phyrlic
- B - Biotite phyrlic
- V - Vitric / glassy
- L - Lithic rich
- R - Reworked, commonly with Carbonate matrix

OTHERS

- TILL - Glacial moraine
- CLAY - Glacial clays
- SILT - Black pyritic siltstone
- FALT - Fault
- CARB - Massive Carbonate
- CBBX - Carbonate breccia
- VEIN - Vein
- GWAC - Greywacke
- CONG - Siliciclastic Conglomerate
- SAND - Siliciclastic Sandstone
- XXXX/YYYY - Interbedded units

GRAINSIZE

- B - Breccia
- C - Coarse
- M - Medium (Sandy)
- F - Fine (Silty)
- V - Very fine (Shaley)
- A - Ashy
- / - Undifferentiated
- X - Crystal Rich
- P - Pumiceous

ALTERATION

- P - Pyrite
- \$ - Mineralised
- Q - Quartz
- O - Chlorite
- C - Carbonate
- H - Hematite
- S - Sericite
- K - K feldspar
- A - Albite
- E - Epidote
- F - Fuchsite
- M - Magnetite
- L - Limonite

N - Scale

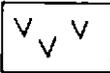
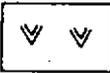
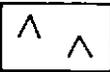
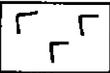
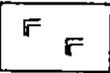
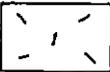
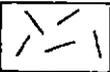
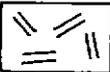
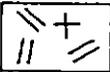
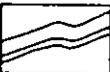
- 1 - Very Weak
- 3 - Weak
- 5 - Moderate
- 7 - Strong
- 9 - Intense

eg. AOC7

Strong albite-chlorite-carbonate alteration
(albite>chlorite>carbonate, albite = 7)

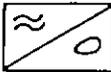
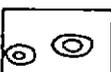
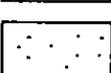
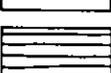
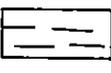
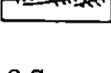
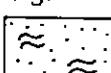
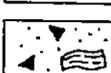
SYMBOLS FOR COHERENT TEXTURES

- single line symbols for low to moderate phenocryst abundance
- double line symbols for abundant phenocrysts
- smaller symbols for fine grained phenocrysts
- larger symbols for coarse grained phenocrysts
- additional "+" symbol for coarse, phenocryst-rich granitoid texture

	basalt, poorly to moderately porphyritic basalt
	phenocryst-rich basalt
	andesite, poorly to moderately porphyritic andesite
	phenocryst-rich andesite
	dacite, poorly to moderately porphyritic dacite
	phenocryst-rich dacite
	fine, poorly to moderately porphyritic rhyolite
	coarse, poorly to moderately porphyritic rhyolite
	coarse, phenocryst-rich rhyolite
	coarse rhyolitic porphyry
	flow foliation
	spherulites, lithophysae, alteration spots, nodular devitrification texture

SYMBOLS FOR VOLCANICLASTIC TEXTURES

- closer spaced symbols for dominant grain size and grain type

	pumice or relict pumice
	angular, juvenile lava clasts
	fiamme/vitriclast or relict vitriclast
	accretionary lapilli
	angular, polymict lithic clasts
	rounded, polymict lithic clasts
	mudstone intraclast
	sand-size particles, granular texture
	mud-size particles
	distinct planar stratification
	diffuse planar stratification
	cross bedding
	micro-cross lamination
e.g.	
	pumice clasts in sand matrix
	angular polymict lithic clasts and mudstone intraclasts in sand matrix

SYMBOLS FOR JUVENILE-CLAST-RICH DEPOSITS

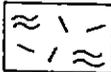
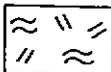
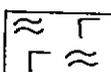
	jigsaw-fit texture of fine, moderately porphyritic rhyolite		pumice-clast-rich deposit, coarse, moderately porphyritic rhyolitic composition
	jigsaw-fit texture of coarse, moderately porphyritic rhyolite		pumice-clast-rich deposit, coarse, phenocryst-rich rhyolitic composition
	jigsaw-fit texture of coarse phenocryst-rich andesite		pumice-clast-rich deposit, coarse, moderately porphyritic dacitic composition

Fig. 9—Recommended composition and texture symbols for graphic logging of volcanic deposits.
(From:—McPhie, Doyle and Allen. CODES 1993)

APPENDIX 2

**WSP4
Drill Log and Assays**

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	WSP4	DRILLED BY	Fred Ortner
PROJECT	White Spur	NORTHING	5361675
PROSPECT		EASTING	376476
DESIGNED BY	M Vicary	RL	577
LOGGED BY	R Allen	INCLINATION	-60
COMMENCED	26-02-1997	AZIMUTH	090
FINISHED	24-04-1997	EOH	400.30

PURPOSE

To test the White Spur Formation - Central Volcanic Sequence contact about 400m north of a possible growth fault. The hole was collared near the collar of WSP103.

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-60	090	180	-53	098	303	-50.5	100
30	-60.2	093	210	-52.5	098	330	-50	104
72	-60	097	240	-51.2	101	360	-49	106
150	-54	095	270	-51	101	400	-47.5	107

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	0 - 104	Hole cased with PVC
NQ	104 - EOH	DHEM Survey performed

SUMMARY

Summary Log		
0	- 107	Greywacke (Cyg)
107	- 142	Black siltstone (Cyss)
142	- 148.7	Volcaniclastic sandstone & siltstone (Cym)
148.7	- 223.5	Quartz feldspar xtl rich graded massflow (Cyx)
223.5	- 241.2	Interbedded black siltstone & v/c sst (Cym/Cya/Cyss)
241.2	- 307.4	Graded dacitic massflow breccia with sulphide clasts (Cymfs)
307.4	- 344.05	Black siltstone (Cyss)
344.05	- 348.8	Fine to medium grained v/c sst (Cys?/Cya?)
348.8	- 400.3	Feldspar phyric pumice breccia (Ccv)

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 4 (summary)

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 4

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 1 OF 2

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 2 OF 2

PROJECT : WHITE SPUR
 PROSPECT :
 DATE :
 LOGGED BY : ROD ALLEN

PROJECT : WHITE SPUR
 PROSPECT :
 DATE :
 LOGGED BY : ROD ALLEN

SCALE 1:1000

HOLE DEPTH METER	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							VEIN	ROCK	ALTERATION
0-107						0-107 Interbedded greywacke and lithicwacke.			
107-142						107-142 Black Siltstone.			
142-148.7						142-148.7 Volcanoclastic sandstone + siltstone.			
148.7-223.5						148.7-223.5 Quartz feldspar crystal rich graded massflow.			

HOLE DEPTH METER	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							VEIN	ROCK	ALTERATION
223.5-241.2						223.5-241.2 Interbedded black siltstone and volcanoclastic sandstone.			
241.2-307.6						241.2-307.6 Graded acidic massflow breccia with sulphide clasts.			
307.6-344.05						307.6-344.05 Black Siltstone.			
344.05-348.8						344.05-348.8 fine to medium grained volcanoclastic sandstone.			
348.8-400.3						348.8-400.3 feldspar phric pumice breccia.			

7/2/03

GRAPHIC LOG

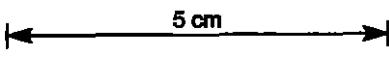
Volcanic Resources Ltd

Project Mt. Read Volcanics, Tasmania.
Location White Spur

Drill hole no. WSP 4
Location no. 1 of 8

Co-ords _____ RL _____ Scale 1:200 Page 1 of 8
Azim _____ Incl _____ Diam _____ Logged by Rod Allen Date 19.4.97

m	Structure	Log with grain size mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description	Alteration
0				Start ~ 3.5m	
5	↑ gb			grey, feld > lithic-qtz sandst turbidites >> grey siltst	strong brown weathering
10	↑			Sandstone beds average 1-1.5m thick Bed bases 1-2mm grain size	
15	↑				
20	↑ gb				
25	↑				
30	↑			continued coarsening - and thickening upward cycle	↑ grey weak ser-carb trace pyrh ↓
35	↑				
40	↑ gb				
45	↑				
50	↑				

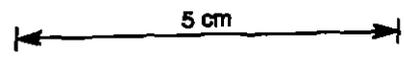


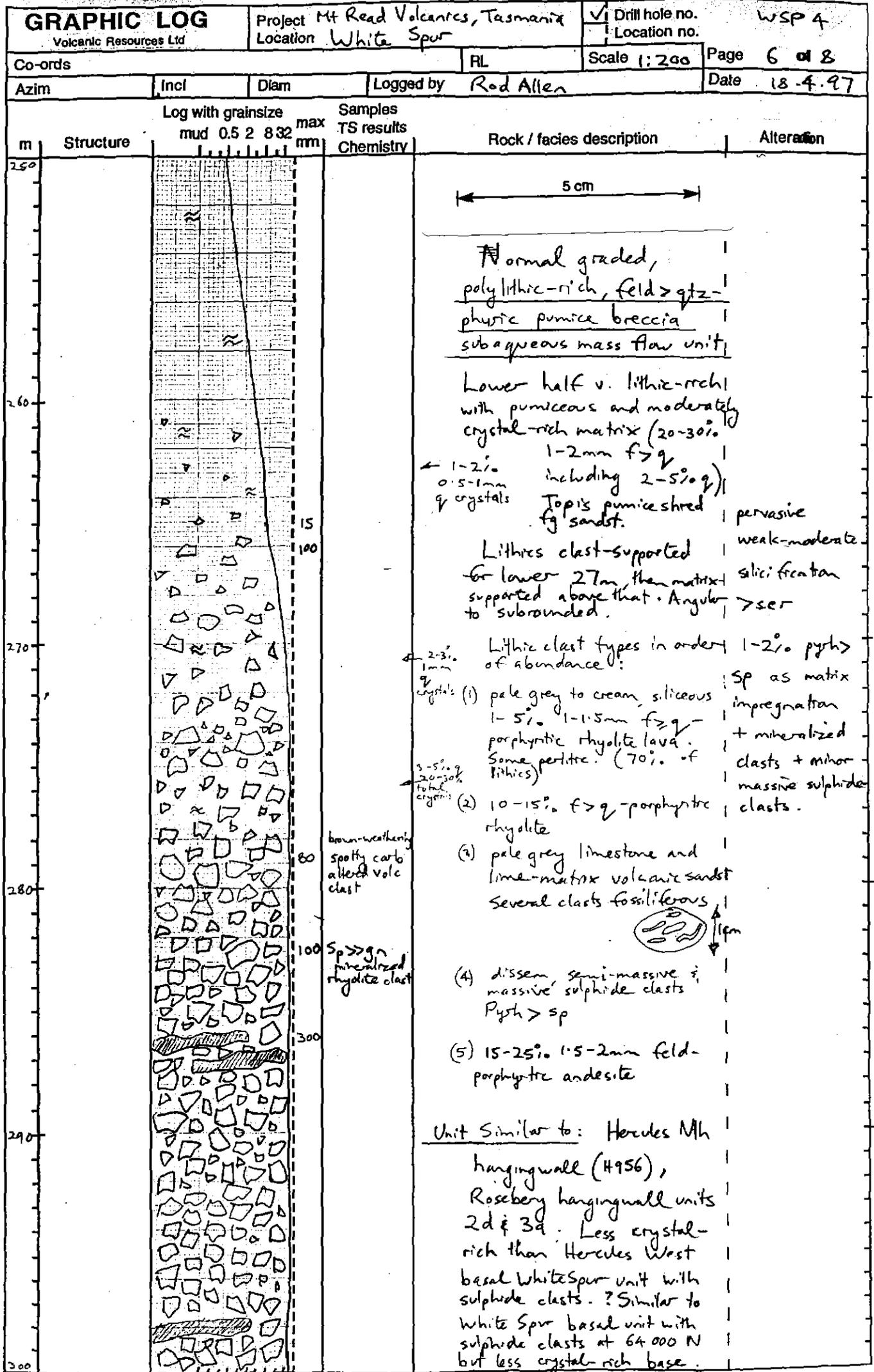
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Co-ords			RL	Scale 1:200	Page 2 of 8
Azim	Incl	Diam	Logged by Rod Allen		Date 19.4.97
m	Structure	Log with grainsize mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description	Alteration
50	↑			<p>5 cm</p> <p>average 2 sandst beds per metre</p> <p>slight fining-upward</p> <p>To top of drill hole this unit has superb coarsening and thickening up cycle = prograding sandst turbidite lobe</p> <p>Medium bedded, grey siltst & grey f-cg sandst turbidites > pale grey lime-siltst (2-5cm) and black mudst.</p> <p>Sandst feld = lithic rich with 10-15% small black mud grains. Appears more reworked "grey wacke" type sandst than below 107m, but is still mica-poor and q-cry stal-bearing. Probably reworked felsic ± intermediate volcanic provenance</p>	
60	↑				
70	gb				
80	gb				
90	gb				
100	gb				

GRAPHIC LOG Volcanic Resources Ltd		Project Mt Read Volcanics, Tasmania Location White Spur		Drill hole no. WSP 4 Location no.	Page 3 of 8
Co-ords			RL	Scale 1:200	Date 19.4.97
Azim	Incl	Diam	Logged by Rod Allen		
m	Structure	Log with grainsize mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description	Alteration
100	↑ ↑ gb ↑			5 cm ↑ start of thickening - i; coarsening up cycle: increasing sand/mud ratio 107m	
110				115m ↑ less sandst beds	
120	gb ↑ ↑			Black and grey laminated mudstone with 5% 1-5cm (rarely up to 30cm) grey sandst turbidites	Sandst beds moderate ser-carb altered and have strong pyrh-py impregnation of coarse- bed bases
130	gb ↑ ↑ S ₂ 35° S ₁ 50° 63°			Thickest sandst beds marked accurately; thinner ones schematic Sandst crystal-rich feld > q; q up to 25%; total crystals 45-70%	Mudst moderate (1-2%) pyrh-bearing
140	gb ↑ ↑ ↑				
150			grey silicified (large ? pumice block with 25-30% 3mm feld crystals)	142m grey moderately crystal- rich (≤30% crystals, q 7%) tuffaceous sandst.	

GRAPHIC LOG Volcanic Resources Ltd		Project Mt Reed Volcanics, Tasmania Location White Spur		Drill hole no. WSP 4
Co-ords		RL	Scale 1:200	Page 4 of 8
Azim	Incl	Diam	Logged by Rod Allen	Date 19.4.97
m	Structure	Log with grainsize mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description
150				<p>5 cm</p> <p>sericitic pumice clast</p> <p>pumice framme oriented parallel to S₁ and are chl or ser altered with 30-40% f > q (q 15%) average 2-2.5 mm phenocrysts. Qtz commonly as big or bigger than feld.</p>
160				
170				as below
180				<p>This unit similar to:</p> <ol style="list-style-type: none"> (1) Hercules hanging wall q-phyre crystal-rich mass flow in G10 pit & Heres South holes (2) Base of white spur Fm at west Heres and Sth of Sth Heres (Red 87-9) (3) Rosebery HW units 2a & 4 <p>Abundance of q-f porphyry pumice & lithics most similar to <u>Rosebery Unit 2a.</u></p>
190				
200				<p>Green ser-chl-altered 40% 3mm f > q porphyry pumice clast Qtz larger than feld & up to 7mm</p> <p>decreasing crystal % increasing pumice matrix and framme</p>

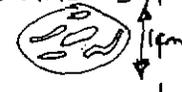
GRAPHIC LOG Volcanic Resources Ltd		Project Mt Read Volcanics, Tasmania		✓ Drill hole no. WSP 4		
Location White Spur		Location no.		Page 5 of 8		
Co-ords		FL		Scale 1:200		
Azim	Incl	Diam	Logged by Rod Allen		Date 19.4.97	
m	Structure	Log with grainsize mud 0.5 2 8 32 max mm		Samples TS results Chemistry	Rock / facies description	Alteration
		60		? white carb-g altered ? f-g rhyolite	Grey, normal graded, feld-qtz crystal-rich, volcanic sandstone subaqueous mass flow unit	pale grey weak pervasive q-ser
210		25			Base has very abundant irregular large black mudst r/pup clasts, and mud matrix to the volc sandst.	
220		1100		black mud rafts	Near base 50-60% 2mm average feld > q crystals; q 10-20% and includes large subrounded q crystals up to 6mm.	
		1200		25% 2-3mm f-g porphyry	At base is a large clast of feld-phyric pumice breccia from top of CVC and a large q-f porphyry clast. Main lithic clast types are (1) pale pinkish cream 15-30% 2mm f-g q porphyry (2) 5% 1-2mm 223.5m f-g q phyric rhyolite.	
		1240		20-25% 2mm feld-phyric strongly set altered pumice box = top of CVC		v. weak ser
226.8	minor brittle fault zone 50°	230.3			grey and black mudstone with thick f >> q crystal rich sandst turbidites in lower half	abundant syn to late tectonic q-calcite chl > arsp > py veins
	bedding 63°	gb			qtz crystals 3-5% in sandst.	Weak ser
	S2	gb				
	S2 25° flame + S1 35-70°	gb				
237.6m					Grey siliceous tuffaceous siltst / vfg sandst probably top of mass flow below	
242.0m		1100		large sericite flame common at top of unit. 10% 1-2mm average f > q crystals in flame. Qtz 2-4% and smaller than feld.		
250						

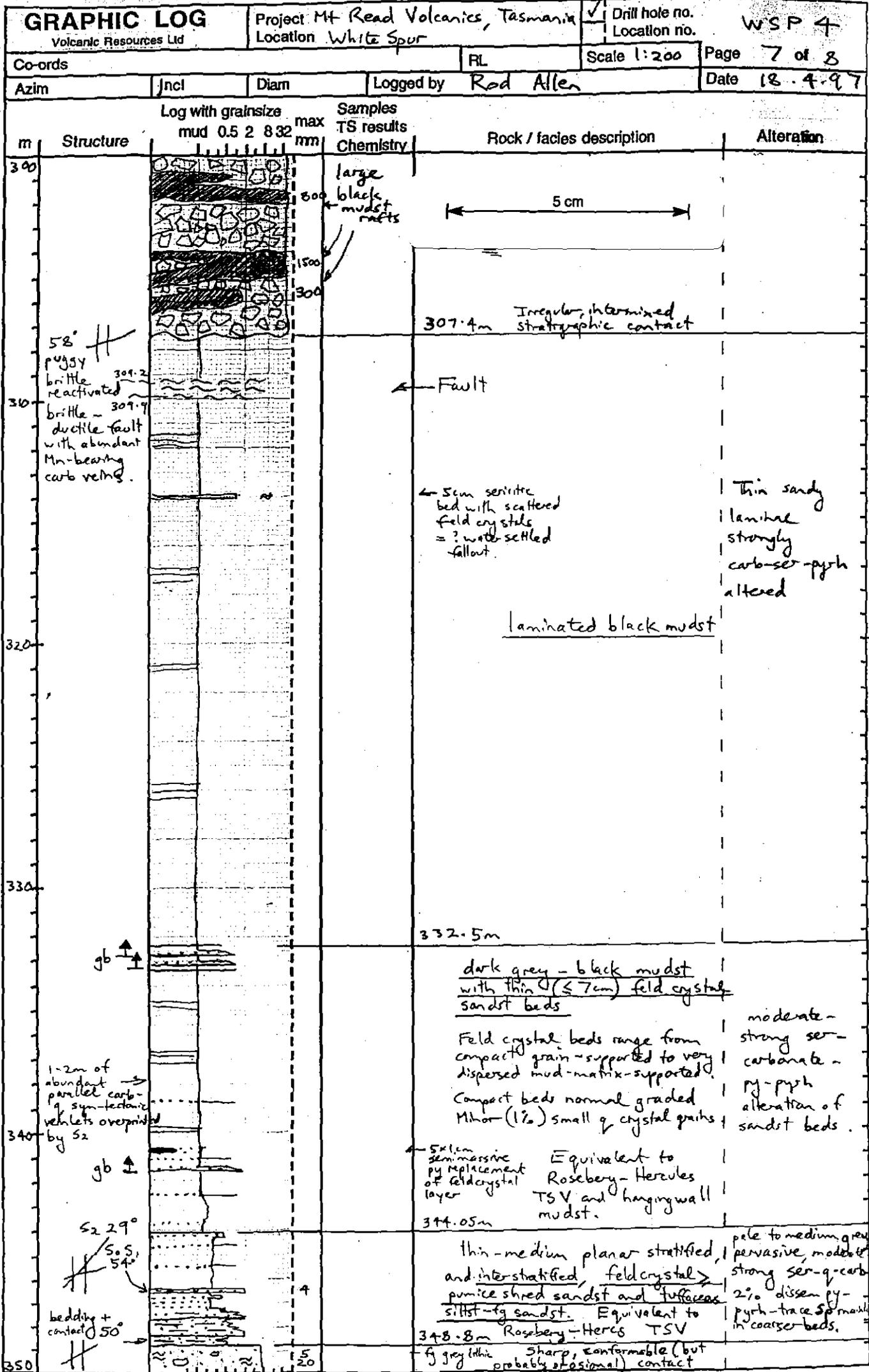


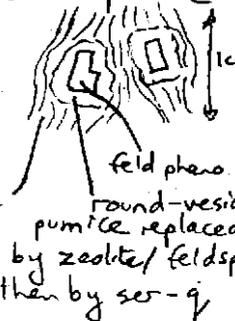


brown-weathering sooty carb altered volc clast

Sp >> gn mineralized rhyolite clast





m	Structure	Log with grainsize					max mm	Samples TS results Chemistry	Rock / facies description	Alteration
		mud	0.5	2	8	32				
350								← 5 cm →	yellowish-grey moderate sericite; 1-2% py blebs + dissem.	
								? appears more feld crystal-rich (25-35%) above 356m, partly due to the sericitised feld overgrowths looking like part of the feld phenocrysts	mottled - blotchy to banded moderate, mottled to banded, dark green-grey, yellow grey and pale grey	
360							medium grey, fg 1% 1-2mm feld-phyrific & finely micro-litic; leucocr-rich dacite/andesite lithic. Crum like cauliflower margins	Massive to diffuse 2-10cm banded, 20-25% 2mm feldspar-phyrific pumice breccia	ser-chl and ser-qtz 1-2% fine dissem py-pyrh in feld crystals ≤ 1% dissem magnetite < 0.5mm	
								Relative crystal-rich. 3% fg dissem leucocr. Well preserved pumice textures: 		
370							grey fg leucocr-rich ?dacite	grey massive fg 1-2% 1mm feld-porphyrific ?dacitic lithic clasts occur all way to top of unit, suggests fine-grained graded top, eroded off.	Moderate late tectonic q > chl veins	
								(Equivalent to Rosebery-Hercs) footwall pumice breccia		
380								Lithics pink/orange feld-altered below 386m		
								Size of pumice clasts difficult to estimate in this hole		
390							brown-orange 15% 1-2mm f-dacite lithic	Distinct flame rare.	386m gradational blotchy/mottled pink feld > green chl = strong ?diagenetic alteration.	
							bright orange, Si 1-1.5mm f → ferruginous porphyritic rhyolite/dacite fg aphyric leucocr-rich ?dacite		Weak late to post tectonic q-chl veining	
400							bright orange 10% 1-2mm feld-rhyolite/dacite lithic	End of hole 400.3m	feld crystals moderately ser altered (cream)	

WSP4 ASSAYS

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A
43736	WSP4	267	268	5361655.16	376624.77	356.21	10	NA	56	NA	70	NA
43737	WSP4	268	269	5361655.04	376625.39	355.43	10	NA	55	NA	110	NA
43738	WSP4	269	270	5361654.92	376626.01	354.65	10	NA	126	NA	309	NA
43739	WSP4	270	271	5361654.80	376626.63	353.87	14	NA	108	NA	126	NA
43741	WSP4	271	272	5361654.68	376627.24	353.10	24	NA	150	NA	216	NA
43742	WSP4	272	273	5361654.56	376627.86	352.32	22	NA	133	NA	154	NA
43743	WSP4	273	274	5361654.44	376628.48	351.54	12	NA	143	NA	202	NA
43744	WSP4	274	275	5361654.32	376629.10	350.77	11	NA	161	NA	247	NA
43745	WSP4	275	276	5361654.21	376629.72	349.99	6	NA	143	NA	136	NA
43746	WSP4	276	277	5361654.09	376630.34	349.22	8	NA	97	NA	211	NA
43747	WSP4	277	278	5361653.97	376630.96	348.44	9	NA	127	NA	386	NA
43748	WSP4	278	279	5361653.85	376631.58	347.66	10	NA	307	NA	364	NA
43749	WSP4	279	280	5361653.73	376632.20	346.89	12	NA	205	NA	292	NA
43750	WSP4	280	281	5361653.62	376632.82	346.11	18	NA	480	NA	1214	NA
43751	WSP4	281	282	5361653.50	376633.44	345.34	-4	NA	44	NA	913	NA
43752	WSP4	282	283	5361653.38	376634.06	344.56	8	NA	124	NA	175	NA
43753	WSP4	283	284	5361653.27	376634.68	343.79	-4	NA	118	NA	365	NA
43754	WSP4	284	285	5361653.15	376635.30	343.01	5	NA	42	NA	201	NA
43755	WSP4	285	286	5361653.03	376635.92	342.24	-4	NA	164	NA	243	NA
43756	WSP4	286	287	5361652.92	376636.55	341.46	14	NA	164	NA	199	NA
43757	WSP4	287	288	5361652.80	376637.17	340.69	14	NA	349	NA	609	NA
43758	WSP4	288	289	5361652.69	376637.79	339.91	12	NA	206	NA	508	NA
43759	WSP4	289	290	5361652.57	376638.41	339.14	-4	NA	195	NA	963	NA
43761	WSP4	290	291	5361652.46	376639.04	338.37	18	NA	232	NA	608	NA
43762	WSP4	291	292	5361652.35	376639.66	337.59	8	NA	260	NA	466	NA
43763	WSP4	292	293	5361652.23	376640.28	336.82	8	NA	95	NA	141	NA
43764	WSP4	293	294	5361652.12	376640.91	336.05	5	NA	1248	NA	605	NA
43765	WSP4	294	295	5361652.01	376641.53	335.27	17	NA	335	NA	600	NA
43766	WSP4	295	296	5361651.89	376642.16	334.50	14	NA	739	NA	892	NA
43767	WSP4	296	297	5361651.78	376642.78	333.73	5	NA	82	NA	121	NA
43768	WSP4	297	298	5361651.67	376643.41	332.95	-4	NA	156	NA	295	NA
43769	WSP4	298	299	5361651.56	376644.03	332.18	8	NA	116	NA	210	NA
43770	WSP4	299	300	5361651.45	376644.66	331.41	6	NA	46	NA	64	NA
43771	WSP4	300	300.85	5361651.34	376645.23	330.70	10	NA	193	NA	319	NA
43772	WSP4	300.85	301.85	5361651.24	376645.81	329.98	15	NA	72	NA	122	NA
43773	WSP4	301.85	303	5361651.12	376646.49	329.15	12	NA	86	NA	429	NA

WSP4 ASSAYS

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A
43774	WSP4	303	304.06	5361651.00	376647.18	328.30	14	NA	199	NA	447	NA
43775	WSP4	304.06	305	5361650.89	376647.80	327.53	22	NA	111	NA	154	NA
43776	WSP4	305	306	5361650.78	376648.41	326.78	18	NA	113	NA	190	NA
43777	WSP4	306	307.35	5361650.64	376649.15	325.87	13	NA	171	NA	473	NA
43778	WSP4	343	344	5361645.29	376672.17	297.64	18	NA	15	NA	53	NA
43779	WSP4	344	345	5361645.12	376672.80	296.88	5	NA	9	NA	27	NA
43781	WSP4	345	346	5361644.96	376673.43	296.12	5	NA	9	NA	21	NA
43782	WSP4	346	347	5361644.79	376674.05	295.36	11	NA	416	NA	606	NA
43783	WSP4	347	348	5361644.62	376674.68	294.60	8	NA	-5	NA	32	NA
43784	WSP4	348	348.85	5361644.46	376675.26	293.90	31	NA	8	NA	44	NA
43785	WSP4	348.85	350	5361644.29	376675.89	293.14	16	NA	16	NA	35	NA
43786	WSP4	350	351	5361644.10	376676.57	292.32	11	NA	20	NA	46	NA
43787	WSP4	351	352	5361643.93	376677.20	291.57	9	NA	5	NA	46	NA
43788	WSP4	352	353	5361643.76	376677.82	290.81	7	NA	-5	NA	45	NA
43789	WSP4	353	354	5361643.58	376678.45	290.05	9	NA	-5	NA	42	NA
43790	WSP4	354	355	5361643.41	376679.08	289.29	6	NA	5	NA	37	NA
43791	WSP4	355	356	5361643.23	376679.71	288.54	4	NA	-5	NA	36	NA
43792	WSP4	356	357	5361643.05	376680.34	287.78	-4	NA	14	NA	39	NA
43793	WSP4	357	358	5361642.87	376680.97	287.03	10	NA	11	NA	34	NA
43794	WSP4	358	359	5361642.69	376681.60	286.27	7	NA	22	NA	41	NA
43795	WSP4	359	360	5361642.51	376682.23	285.52	6	NA	-5	NA	29	NA
43796	WSP4	360	361	5361642.33	376682.86	284.76	9	NA	25	NA	42	NA
43797	WSP4	361	362	5361642.15	376683.49	284.01	10	NA	19	NA	37	NA
43798	WSP4	389	390	5361636.91	376701.32	263.06	NA	NA	NA	NA	NA	NA
43799	WSP4	187	188	5361665.71	376576.23	419.1	NA	NA	NA	NA	NA	NA

	Units	ppm	%	ppm	%	ppm	%
Detection		4	0.01	5	0.01	4	0.01
Method		GA101	GA104	GA101	GA104	GA101	GA104
Laboratory		Analabs	Analabs	Analabs	Analabs	Analabs	Analabs

WSP4 ASSAYS

SAMPLE	AG_A	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N
43736	-2	-5	NA	14.5	NA	159	1440	-2	NA	136	2.01	13
43737	-2	-5	NA	27.7	NA	10	1590	-2	NA	140	1.69	257
43738	-2	-5	NA	47.5	NA	-5	1800	-2	NA	113	-1	20.4
43739	-2	-5	NA	32.4	NA	-5	2240	-2	NA	108	1.24	258
43741	-2	-5	NA	49.2	NA	-5	2320	-2	NA	115	2.18	15.1
43742	-2	-5	NA	39.9	NA	-5	2730	-2	NA	92.3	1.5	233
43743	-2	-5	NA	29.3	NA	-5	2600	-2	NA	109	1.54	14.8
43744	-2	-5	NA	23.1	NA	-5	2490	-2	NA	120	2.44	189
43745	-2	-5	NA	19.4	NA	8.4	2110	-2	NA	122	1.88	17.2
43746	-2	-5	NA	27.2	NA	-5	3060	-2	NA	103	1.14	251
43747	-2	-5	NA	71.8	NA	-5	2930	-2	NA	92.4	1.55	13
43748	-2	-5	NA	210	NA	-5	2640	-2	NA	102	2.62	243
43749	-2	-5	NA	22.8	NA	-5	2790	-2	NA	97.7	1.59	23.3
43750	-2	-5	NA	126	NA	-5	2720	-2	NA	95.9	1.8	196
43751	-2	-5	NA	18.5	NA	-5	3610	-2	NA	92.7	-1	15.2
43752	-2	-5	NA	21.8	NA	-5	2060	-2	NA	85.7	1.29	345
43753	-2	-5	NA	15.1	NA	-5	2450	-2	NA	101	2.17	15.9
43754	-2	-5	NA	1.49	NA	-5	2630	-2	NA	96.5	-1	239
43755	-2	-5	NA	9.65	NA	-5	2550	-2	NA	103	-1	15.2
43756	-2	-5	NA	18.1	NA	6.1	2660	-2	NA	98.2	2.71	223
43757	-2	-5	NA	31.5	NA	-5	2650	-2	NA	118	3.29	19.1
43758	-2	-5	NA	87.6	NA	-5	2700	-2	NA	80.1	3.51	202
43759	-2	-5	NA	48.7	NA	-5	2470	-2	NA	96.9	1.12	18
43761	-2	-5	NA	83.9	NA	-5	3170	-2	NA	72.3	2.71	226
43762	-2	-5	NA	89.1	NA	-5	2500	-2	NA	89	1.73	20
43763	-2	-5	NA	48.5	NA	-5	3040	-2	NA	68.8	2.64	273
43764	-2	-5	NA	53.2	NA	-5	2860	-2	NA	95.5	2.11	15.2
43765	-2	-5	NA	463	NA	-5	2420	2.18	NA	111	2.53	238
43766	-2	-5	NA	179	NA	7.7	2630	-2	NA	88.4	2.74	20.5
43767	-2	-5	NA	29.7	NA	-5	2450	-2	NA	124	1.6	182
43768	-2	-5	NA	30.3	NA	-5	1840	-2	NA	120	1.96	19
43769	-2	-5	NA	23.7	NA	-5	2440	-2	NA	89.1	4.02	203
43770	-2	-5	NA	11.3	NA	-5	1010	-2	NA	59	1.42	12.8
43771	-2	-5	NA	25.5	NA	-5	1680	-2	NA	79.2	1.4	211
43772	-2	-5	NA	25.1	NA	6.1	1110	-2	NA	55	10.4	81
43773	-2	-5	NA	120	NA	7.2	1930	-2	NA	98.4	3.96	173

WSP4 ASSAYS

SAMPLE	AG_A	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N
43774	-2	-5	NA	126	NA	-5	1640	-2	NA	91.7	4.39	38.2
43775	-2	-5	NA	69	NA	-5	862	-2	NA	56.8	17	166
43776	-2	-5	NA	54.9	NA	9.8	1010	-2	NA	60	14.1	83.9
43777	-2	-5	NA	117	NA	-5	1380	-2	NA	89.9	6.76	220
43778	-2	-5	NA	9.45	NA	-5	871	-2	NA	105	10.4	72.9
43779	-2	-5	NA	1.85	NA	-5	1040	-2	NA	141	3.21	53
43781	-2	-5	NA	-1	NA	7.3	1100	-2	NA	141	2.13	-5
43782	-2	-5	NA	2.45	NA	-5	959	-2	NA	142	2.05	94.5
43783	-2	-5	NA	4.3	NA	-5	1030	-2	NA	137	2.31	12
43784	-2	-5	NA	38.1	NA	-5	747	-2	NA	107	7.51	38.3
43785	-2	-5	NA	16.1	NA	8.3	1890	-2	NA	176	6.79	69.3
43786	-2	-5	NA	8.64	NA	-5	1950	-2	NA	170	6.05	-5
43787	-2	-5	NA	10	NA	-5	1550	-2	NA	165	5.94	78.1
43788	-2	-5	NA	6.53	NA	-5	1300	-2	NA	144	4.32	5.7
43789	-2	-5	NA	3.87	NA	-5	1280	-2	NA	147	6.14	100
43790	-2	-5	NA	5.09	NA	-5	1320	-2	NA	130	3.69	-5
43791	-2	-5	NA	4.8	NA	-5	944	-2	NA	122	3.81	138
43792	-2	-5	NA	4.09	NA	-5	800	-2	NA	121	4.18	6.7
43793	-2	-5	NA	2.42	NA	-5	1200	-2	NA	121	4.33	204
43794	-2	-5	NA	2.63	NA	-5	1170	-2	NA	127	4.57	10.7
43795	-2	-5	NA	3.31	NA	-5	1520	-2	NA	120	4.55	167
43796	-2	-5	NA	6.54	NA	-5	1490	-2	NA	126	4.97	10
43797	-2	-5	NA	5.59	NA	-5	1220	-2	NA	121	4.25	212
43798	NA	-5	NA	2.65	NA	-5	1300	-2	NA	108	4.35	14.1
43799	NA	NA	NA	-5	4.73	-5	2850	-2	NA	79.6	2.9	193
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	2	5	1	1	0.008	5	100	2	1	2	1	5
	GA101	GN801	GA101	GN801	GG309	GN801						
	Analabs	Becquerel	Analabs	Becquerel	Analabs	Becquerel						

43799

WSP4 ASSAYS

SAMPLE	CS_N	EU_N	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N
43736	5.89	0.8	1.2	4.58	-20	3.19	66.4	0.55	-15	2.37	198	4.91
43737	5.12	1.15	1.26	4.71	-20	3.42	68.9	0.63	-15	2.64	186	5.36
43738	4.88	0.84	1.56	4.41	-20	3.56	54.2	0.61	-15	2.04	180	6.93
43739	4.24	0.76	1.41	4.05	-20	3.51	51.8	0.6	-15	1.86	163	6.83
43741	4.19	0.85	1.7	4.25	-20	3.3	53.8	0.68	-15	1.75	167	11.3
43742	4.73	0.75	1.83	4.14	-20	3.96	45.2	0.6	-15	1.53	183	9.52
43743	4.8	-0.5	1.53	4.21	-20	3.67	52.7	0.52	-15	1.72	172	7.19
43744	6.9	0.83	1.45	4.49	-20	3.81	58.2	0.61	-15	1.36	196	9.33
43745	7.07	0.81	1.34	4.1	-20	3.54	58.7	0.6	-15	0.89	197	12.9
43746	6.48	0.68	1.79	4.43	-20	4.07	49	0.68	-20	1.18	194	8.74
43747	5.2	1.01	1.69	3.68	-20	3.46	43.3	0.66	-10	1.38	146	8.61
43748	5.66	0.91	1.8	3.97	-20	3.31	49.7	0.64	-10	1.35	183	12.1
43749	6.07	0.93	1.57	3.74	-20	3.22	47.9	0.58	-10	1.32	146	10.4
43750	5.92	1.21	2.42	3.62	-20	3.19	47.5	0.59	-10	1.46	153	11.3
43751	4.66	-0.5	1.01	3.97	-20	3.5	44.6	0.56	-15	1.68	156	8.44
43752	3.4	0.71	1.21	3.31	-20	2.14	40.6	0.53	-10	1.74	109	9.27
43753	6.32	0.62	1.8	4.22	-20	3.52	47	0.63	-15	0.868	160	9.39
43754	6.53	0.66	1.75	4.44	-20	3.73	47.9	0.66	-15	1.19	177	7.59
43755	5.21	1.02	1.19	3.78	-20	3.47	49.9	0.61	-15	0.603	173	9.56
43756	6.16	0.74	1.54	3.78	-20	3.49	47.5	0.58	-15	0.806	179	11.8
43757	7.88	0.72	1.85	4.5	-20	3.62	56.7	0.63	-10	0.936	182	11.8
43758	5.09	1.08	1.66	3.86	-20	2.97	37.9	0.48	-15	1.27	140	10.8
43759	4.61	0.83	1.18	4.46	-20	2.43	45.5	0.62	-15	2.58	125	11
43761	4.4	0.83	1.62	3.3	-20	3.16	33.2	0.67	-15	0.77	140	11.5
43762	5.84	0.76	1.67	3.59	-20	2.82	41.8	0.63	-15	1.02	141	9.59
43763	6.19	0.67	1.92	3.89	-20	3.71	30.7	0.8	-15	1.08	157	7.9
43764	6.56	0.79	1.4	4.37	-20	3.72	44.4	0.66	-20	0.95	151	13
43765	4.93	0.76	1.65	4.11	-20	3.04	51.6	0.76	-15	1.43	129	18.3
43766	7.02	0.69	2.36	4.18	-20	2.97	42.7	0.62	-10	1.03	146	15.6
43767	8.09	0.76	1.47	4.56	-20	3.18	61.2	0.66	-15	1.18	173	6.52
43768	6.14	0.76	1.43	4.09	-20	2.54	58.5	0.56	-10	1.67	137	6.77
43769	5.66	0.73	1.52	4.2	-20	3.1	41.9	0.53	-10	0.934	168	9.68
43770	2.8	0.58	0.81	3.31	-20	1.46	26.6	0.54	-10	2.2	75.4	3.61
43771	5.23	0.63	1.42	3.56	-20	2.25	36.2	0.53	-10	1.68	113	8.06
43772	4.8	-0.5	2.18	2.5	-20	1.99	24.9	0.32	-5	0.226	108	14.6
43773	7.52	0.88	1.71	4.46	-20	2.98	45.8	0.65	-15	1.14	158	7.81

427087

WSP4 ASSAYS

SAMPLE	CS_N	EU_N	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N
43774	5.79	0.78	1.89	3.7	-20	2.88	41.6	0.59	-15	1.1	132	12.3
43775	5.63	0.7	3.32	3.12	-20	1.95	25.6	0.34	12	0.265	123	21
43776	5.32	0.78	3.32	3.43	-20	2.29	28.5	0.52	-10	1.28	110	15.8
43777	6.73	0.94	2.65	4.12	-20	3.14	41.2	0.63	-15	1.15	122	11.9
43778	7.34	1.21	3.06	5.74	-20	2.81	44.9	0.55	-5	0.657	140	2.1
43779	7.79	1.48	1.7	7.53	-20	2.94	61.9	0.73	-10	0.353	154	0.85
43781	7.74	1.19	1.51	7.38	-20	2.92	62	0.74	-10	0.275	154	0.33
43782	6.67	1.27	1.67	7.34	-20	2.98	62.3	0.74	-10	1.47	130	0.81
43783	4.79	1.2	2.02	7.27	-20	1.83	60.4	0.7	-10	2.01	105	0.47
43784	4.57	1.5	2.32	6.13	-20	1.75	47.8	0.64	-15	1.95	113	2.32
43785	12.6	2.82	2.42	9.23	-20	4.73	77.6	0.92	-10	0.916	251	1.63
43786	12.8	2.24	2.56	9.6	-20	4.07	74.3	0.89	-10	0.963	232	1.5
43787	10.5	1.97	2.63	8.7	-20	3.31	72.7	0.8	-10	1.16	200	0.98
43788	7.92	1.93	2.57	7.54	-20	2.44	63.7	0.72	-5	1.4	159	0.88
43789	6.56	2.3	2.64	7.8	-20	2.38	64.3	0.77	-10	1.68	166	0.78
43790	5.41	1.7	2.65	7.33	-20	2.54	56.9	0.72	-10	1.98	128	0.84
43791	4.77	1.73	2.45	6.53	-20	1.19	54.2	0.68	-5	2.91	74.7	1.12
43792	3.14	1.73	2.6	6.85	-20	0.86	52.6	0.63	-5	3.81	43.7	0.83
43793	3.78	1.78	2.18	6.41	-20	1.38	52.5	0.58	-5	2.74	92.9	0.69
43794	3.83	1.92	2.66	7.04	-20	1.92	56.4	0.63	-10	2.97	68.2	0.94
43795	3.44	1.32	2.4	6.47	-20	1.37	52.4	0.62	-5	2.64	103	0.99
43796	4.52	2.02	2.46	6.93	-20	2.12	56.8	0.7	-5	2.87	110	0.95
43797	2.16	1.81	2.35	6.42	-20	1.49	54.4	0.62	-10	3.31	73.7	0.74
43798	1.18	1.7	2.39	6.2	-20	2.04	46.4	0.52	-5	3.78	57.9	0.67
43799	2.87	1.2	1.91	4.45	-20	1.78	37.3	0.46	-5	3.68	51.8	1.13
	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	1	0.5	0.05	0.5	20	0.2	0.5	0.2	5	0.01	20	0.2
	GN801											
	Becquerel											

WSP4 ASSAYS

SAMPLE	SC_N	SE_N	SM_N	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N
43736	2.6	-5	7.66	1.61	NA	32.7	9.04	-2	3.79	-100	NA
43737	3.05	-5	8.21	2.88	NA	35	9.85	-2	3.97	145	NA
43738	3.51	-5	7.33	2.21	NA	30.5	9.73	-2	4.13	309	NA
43739	2.56	-5	7.11	2.35	NA	31.2	10.2	-2	3.99	162	NA
43741	3.12	-5	7.47	1.75	NA	29.4	9.94	-2	4.21	263	NA
43742	3.43	-5	6.46	2.6	NA	28.7	8.7	-2	3.82	153	NA
43743	2.64	-5	6.95	-1	NA	28.8	9.59	-2	3.46	217	NA
43744	3.26	-5	7.42	-1	NA	31.6	10.6	2.54	3.96	263	NA
43745	3.27	-5	7.37	1.46	NA	28.9	9.23	-2	3.88	128	NA
43746	2.63	-5	6.72	1.5	NA	34	11.5	-2	4.25	225	NA
43747	2.47	-5	6.72	2.19	NA	28.8	8.69	-2	4.15	390	NA
43748	3.06	-5	6.87	1.37	NA	29	8.62	-2	4	354	NA
43749	3.15	-5	6.73	1.33	NA	26.9	8.82	-2	3.62	259	NA
43750	3.24	-5	6.42	1.16	NA	27.5	8.4	-2	3.86	2400	NA
43751	1.59	-5	6.48	1.27	NA	31.7	9.93	-2	3.62	862	NA
43752	1.66	-5	5.88	-1	NA	24.2	7.69	-2	3.35	200	NA
43753	2.78	-5	7.14	1.38	NA	29.2	9.36	-2	4.36	364	NA
43754	5.12	-5	6.96	1.57	NA	30.9	10.4	-2	4.09	204	NA
43755	2.42	-5	7.08	1.26	NA	29.1	11.3	-2	3.86	240	NA
43756	3.9	-5	6.96	-1	NA	25.9	10	2.89	3.76	216	NA
43757	3.39	-5	7.61	1.93	NA	31.8	8.98	-2	3.81	1160	NA
43758	3.58	-5	5.92	2.01	NA	24.2	9.04	-2	3.11	487	NA
43759	2.49	-5	6.91	1.12	NA	32.7	10.8	-2	3.84	962	NA
43761	2.25	-5	6.04	1.6	NA	25.9	11	2.03	4.29	633	NA
43762	2.83	-5	6.7	1.4	NA	26.1	10.4	-2	4.1	451	NA
43763	4.22	-5	6.42	2.12	NA	33.7	11.8	2.72	5.18	167	NA
43764	3.01	-5	6.8	-1	NA	32	12.4	-2	4.15	1100	NA
43765	4.03	-5	7.96	1.11	NA	31.9	10.4	-2	4.79	1130	NA
43766	3.66	-5	6.52	1.85	NA	28.5	8.74	-2	3.81	1740	NA
43767	2.68	-5	7.99	2.62	NA	33.7	10.4	-2	4.1	123	NA
43768	3.21	-5	7.86	-1	NA	28.6	8.93	2.52	3.64	297	NA
43769	4.16	-5	6.26	1.33	NA	27.8	8.48	2.68	3.29	202	NA
43770	1.49	-5	5.29	1.92	NA	23.8	6.98	-2	3.57	-100	NA
43771	1.97	-5	6.33	2.68	NA	30.8	9.03	2.78	3.78	382	NA
43772	9.06	-5	4.57	1.6	NA	11	4.12	-2	2.1	127	NA
43773	5.44	-5	7.44	1.53	NA	29.9	10.9	-2	4.11	419	NA

WSP4 ASSAYS

SAMPLE	SC_N	SE_N	SM_N	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N
43774	5.24	-5	7.34	-1	NA	26.9	10.3	-2	3.81	447	NA
43775	13.3	-5	5.08	-1	NA	10	5.18	3.06	2.45	154	NA
43776	8.84	-5	5.53	-1	NA	18.9	8.64	-2	3.35	227	NA
43777	7.01	-5	7.24	2.11	NA	28	11.1	-2	4	554	NA
43778	10.7	-5	8.57	1.59	NA	21.2	6.98	-2	3.53	-100	NA
43779	7.26	-5	11.3	1.83	NA	24.3	6.43	-2	4.56	-100	NA
43781	6.55	-5	11.2	-1	NA	25	7.48	-2	4.69	-100	NA
43782	8.14	-5	11.6	1.49	NA	25.1	7.86	-2	4.82	571	NA
43783	8.24	-5	11.2	1.83	NA	22.7	6.52	-2	4.5	-100	NA
43784	10.6	-5	9.47	-1	NA	16.6	10.2	-2	3.97	-100	NA
43785	14.5	-5	14.9	2.43	NA	29.5	8.33	-2	5.92	-100	NA
43786	14.4	-5	14.5	1.83	NA	28.5	7.58	-2	5.94	-100	NA
43787	13.4	-5	14.2	-1	NA	26.3	7.17	-2	5.54	-100	NA
43788	12	-5	12.1	2.39	NA	23.7	7.41	-2	4.97	-100	NA
43789	11.9	-5	12.4	1.59	NA	23.9	8.19	-2	4.9	-100	NA
43790	10.9	-5	11	1.52	NA	22	7.41	-2	4.65	-100	NA
43791	10.2	-5	10.4	1.18	NA	20.2	7.56	-2	4.29	-100	NA
43792	10.4	-5	10.4	-1	NA	20.3	7.76	-2	4.4	-100	NA
43793	9.64	-5	10.4	1.87	NA	19.9	5.96	-2	4.01	-100	NA
43794	10.7	-5	10.9	1.87	NA	21.6	8.01	-2	4.34	-100	NA
43795	10.1	-5	10.2	-1	NA	20.5	7.25	-2	4.12	-100	NA
43796	10.4	-5	10.8	2.23	NA	21.2	7.1	-2	4.33	-100	NA
43797	9.8	-5	10.3	1.38	NA	19.2	7.11	-2	3.99	-100	NA
43798	9.88	-5	9.52	1.73	NA	18.5	4.56	-2	3.69	-100	NA
43799	6.98	-5	5.81	2.18	NA	14.5	4.37	-2	3.03	-100	NA
	ppm										
	0.1	5	0.2	1	5	0.5	2	2	0.2	100	500
	GN801										
	Becquerel										

427000

WSP4 ASSAYS

SAMPLE	SiO2	TiO2	Al2O3	Fe2O3	MgO	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI
43736	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43737	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43738	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43739	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43741	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43742	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43743	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43744	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43745	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43746	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43747	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43748	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43749	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43750	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43751	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43752	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43753	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43754	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43755	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43756	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43757	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43758	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43759	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43761	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43762	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43763	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43764	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43765	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43766	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43767	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43768	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43769	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43770	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43771	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43772	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43773	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

WSP4 ASSAYS

SAMPLE	SiO2	TiO2	Al2O3	Fe2O3	MgO	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI
43774	NA											
43775	NA											
43776	NA											
43777	NA											
43778	69.62	0.41	12.59	4.36	2.33	0.06	1.98	3.45	0.81	0.1	2.05	3.64
43779	72.36	0.25	12.33	2.48	1.61	0.05	2.87	3.88	0.45	0.04	0.54	3.94
43781	64.28	0.62	16.32	5.73	1.71	0.06	2.02	1.35	5.77	0.16	0.13	2.15
43782	72.57	0.29	13.57	2.56	1.23	0.03	1.76	3.49	1.88	0.05	1.05	2.84
43783	71.39	0.29	13.79	2.88	1.57	0.04	1.92	2.72	2.59	0.05	1.14	3.01
43784	62.59	0.4	12.77	3.68	1.55	0.1	7.16	2.42	2.58	0.1	2.87	5.5
43785	57.39	0.71	21.25	3.65	2.72	0.03	2.25	5.85	1.2	0.16	3.05	4.64
43786	57.58	0.7	20.46	3.74	3.59	0.05	2.53	5.16	1.31	0.16	2.2	4.64
43787	59.23	0.63	18.47	3.8	3.64	0.05	3.11	4.18	1.51	0.14	1.46	4.78
43788	64.47	0.56	16.51	3.67	2.86	0.05	2.91	3.45	1.8	0.12	1.11	3.9
43789	63.24	0.55	16.84	3.82	2.35	0.05	3.25	3.33	2.17	0.12	1.17	3.9
43790	71.12	0.3	14.17	2.78	0.65	0.06	1.94	2.71	4.71	0.05	0.27	1.78
43791	63.27	0.49	14.49	3.65	1.44	0.07	5.58	1.96	3.9	0.11	1.9	5.45
43792	68.2	0.48	14.87	3.8	1.4	0.06	2.62	1.28	4.94	0.11	1.21	2.52
43793	70.17	0.48	14.24	3.3	1.09	0.05	2.98	1.95	3.53	0.1	0.8	2.27
43794	67.34	0.51	15.18	3.97	1.31	0.07	3.14	1.93	3.88	0.11	0.88	2.49
43795	66.46	0.48	14.32	3.51	1.12	0.08	4.86	2.35	3.48	0.1	0.93	3.52
43796	68.49	0.48	14.91	3.56	1.12	0.06	2.42	2.62	3.7	0.11	0.95	2.38
43797	70.84	0.46	13.98	3.54	0.98	0.06	2.16	1.98	4.3	0.1	0.87	1.87
43798	71.3	0.47	14.1	3.56	0.72	0.06	2.26	2.07	4.83	0.096	0.12	1.06
43799	71	0.3	14.2	2.77	0.65	0.06	1.96	2.71	4.63	0.047	0.24	1.4
	%	%	%	%	%	%	%	%	%	%	%	%
	0.05	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01
	X408											
	Analabs											

WSP4 ASSAYS

SAMPLE	TOTAL	ZR_X	TL_X	V_X
43736	NA	NA	NA	NA
43737	NA	NA	NA	NA
43738	NA	NA	NA	NA
43739	NA	NA	NA	NA
43741	NA	NA	NA	NA
43742	NA	NA	NA	NA
43743	NA	NA	NA	NA
43744	NA	NA	NA	NA
43745	NA	NA	NA	NA
43746	NA	NA	NA	NA
43747	NA	NA	NA	NA
43748	NA	NA	NA	NA
43749	NA	NA	NA	NA
43750	NA	NA	NA	NA
43751	NA	NA	NA	NA
43752	NA	NA	NA	NA
43753	NA	NA	NA	NA
43754	NA	NA	NA	NA
43755	NA	NA	NA	NA
43756	NA	NA	NA	NA
43757	NA	NA	NA	NA
43758	NA	NA	NA	NA
43759	NA	NA	NA	NA
43761	NA	NA	NA	NA
43762	NA	NA	NA	NA
43763	NA	NA	NA	NA
43764	NA	NA	NA	NA
43765	NA	NA	NA	NA
43766	NA	NA	NA	NA
43767	NA	NA	NA	NA
43768	NA	NA	NA	NA
43769	NA	NA	NA	NA
43770	NA	NA	NA	NA
43771	NA	NA	NA	NA
43772	NA	NA	NA	NA
43773	NA	NA	NA	NA

WSP4 ASSAYS

SAMPLE	TOTAL	ZR_X	TI_X	V_X
43774	NA	NA	NA	NA
43775	NA	NA	NA	NA
43776	NA	NA	NA	NA
43777	NA	NA	NA	NA
43778	99.4	190	NA	NA
43779	100.3	258	NA	NA
43781	100.2	201	NA	NA
43782	100.4	256	NA	NA
43783	100.2	253	NA	NA
43784	98.9	212	NA	NA
43785	99.9	341	NA	NA
43786	99.9	334	NA	NA
43787	99.5	304	NA	NA
43788	100.3	271	NA	NA
43789	99.7	272	NA	NA
43790	100.3	150	NA	NA
43791	100.5	239	NA	NA
43792	100.3	243	NA	NA
43793	100.2	227	NA	NA
43794	99.9	248	NA	NA
43795	100.3	231	NA	NA
43796	99.8	240	NA	NA
43797	100.3	226	NA	NA
43798	100.6	222	NA	NA
43799	99.8	150	NA	NA
	%	ppm	ppm	ppm
	0.01	5	50	5
	X408	GX401	GX401	GX401
	Analabs	Analabs	Analabs	Analabs

427001

APPENDIX 3

**WSP5
Drill Log and Assays**

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	WSP5	DRILLED BY	Fred Ortnier
PROJECT	White Spur	NORTHING	5360891
PROSPECT		EASTING	376894
DESIGNED BY	M Vicary	RL	560
LOGGED BY	M Vicary	INCLINATION	-70
COMMENCED	04-05-1997	AZIMUTH	090
FINISHED	05-06-1997	EOH	385.5

PURPOSE

To test the White Spur Formation - Central Volcanic Sequence contact about 400m south of a possible growth fault. There is a marked increase in the thickness of the basal White Spur Formation to the south of the growth fault.

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-70	090	150	-68.2	095	300	-66	096
30	-69.2	091	180	-67.8	094	330	-66.5	097
60	-68.8	095	210	-66.8	095	360	-66	097
90	-68.5	094	240	-66.7	096			
120	-68.3	094.5	270	-66.2	094			

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	0 - 62.4	Hole cased with PVC
NQ	62.4 - EOH	DHEM survey performed

SUMMARY

Summary Log:-	
0 - 92	Rhyolite Intrusive
92 - 295.1	White Spur Formation
295.1 - EOH	Central Volcanic Sequence
The upper part of the Central Volcanic Sequence was moderately sericite - chlorite altered.	
Disseminated and microveins of sphalerite and galena are common from 292 to 309m. This zone returned assays of 17m at 0.77% Zn and 0.39% Pb, including 2.5m at 1.6% Zn and 0.78% Pb from 304.5 to 307m.	

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5 (SUMMARY)

SHEET 1 OF 2

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : EL 5195 WHITE SPUR
 PROSPECT :
 DATE : MAY-JUNE 1997
 LOGGED BY : M VICARY

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
0-92.0						0-92.0 Feldspar-quartz phytic Ethyolite intrusion	CP	IRK	
92.0-94.8						92.0-94.8 Black siltstone	C4SS	SILT	
94.8-110						94.8-110 M gr feldspar rich volcaniclastic sandstone	CapM	VDFM	
110-152.7						110-152.7 Black siltstone	C4SS	SILT	
152.7-158.7						152.7-158.7 Ashy siltstone	Cap	VDFM, VDFP	IDA
158.7-189.5						158.7-189.5 Interbedded ashly siltstone and f-m gr volcaniclastic sandstone	Cap	VDFM, VDFP	IDA
189.5-200.6						189.5-200.6 Ashy Siltstone	IDA		

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5 (SUMMARY)

SHEET 2 OF 2

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY														
							FORMATION	ROCK	ALTERATION	CP	C4SS	CapM	C4SS	Cap	CapM	VDFM	VDFP	IDA	SCCB	OCAB	SO-7
200.6-206.4						F-m gr ashly volcaniclastic sandstone	Cap														
206.4-237.6						Black siltstone															
237.6-246.8						Interbedded black siltstone and volcaniclastic sandstone															
246.8-254.9						Black siltstone															
254.9-257.5						Volcaniclastic sandstone															
257.5-260.5						Black siltstone															
260.5-266.3						Ashy siltstone															
266.3-268.7						brecciated ashly siltstone															
268.7-270.9						Fault + vlc sst															
270.9-275.1						Black siltstone															
275.1-285.7						Ashy siltstone															
285.7-288.1						Ashy siltstone + f gr vlc sst															
288.1-303.7						Feldspar phytic vlc sst															
303.7-308.8						brecciated grey siltstone															
308.8-385.5						Feldspar phytic vlc sst															

427097

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ⊠ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 1 OF 20

PROJECT : ELS/75 WHITE SPUR

PROSPECT :

DATE : MAY-JUNE 1997

LOGGED BY : M Vicary

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ⊠ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 2 OF 20

PROJECT :

PROSPECT :

DATE :

LOGGED BY :

860787

SCALE 1:100

HOLE DEPTH SAMPLE PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FOCALITY	ROCK	ALTERATION
0			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20					
1			▨					
2			▨		highly brecciated Eq intrusive			
3			▨					
4			▨					
5			▨					
6			▨					
7			▨					
8			▨					
9			▨					
10			▨					
11			▨					
12			▨					
13			▨					
14			▨					
15			▨					
16			▨					
17			▨					
18			▨					
19			▨					
20			▨					
REMARKS								

HOLE DEPTH SAMPLE PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FOCALITY	ROCK	ALTERATION
0			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20					
21			▨					
22			▨					
23			▨					
24			▨					
25			▨					
26			▨					
27			▨					
28			▨					
29			▨					
30			▨					
31			▨					
32			▨					
33			▨					
34			▨					
35			▨					
36			▨					
37			▨					
38			▨					
39			▨					
40			▨					
REMARKS								

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 5

SHEET 3 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

SHEET 4 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

427099

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
40								
41								3006
42								
43								
44								
45								0057
46								
47		S ₁ / S ₅						
48								3006
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60	REMARKS							

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								
76								
77								
78								
79								
80	REMARKS							

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

SHEET 5 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						Formation	ROCK	ALTERATION
80								
81								
82								
83								
84								
85								
86							CP	TEL
87								
88								
89								
90								
91								
92			⊞				CP	POSS
93			vora					
94			vofm					
95								
96								
97								
98								
99								
100								
REMARKS								

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

SHEET 6 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						Formation	ROCK	ALTERATION
100								
101								
102								
103								
104								
105								
106								
107								
108								
109								
110								
111								
112								
113								
114								
115								
116								
117								
118								
119								
120								
REMARKS								

100-106 m of felsic rich volcanoclastic sandstone
 - massive nonbedded unit, slightly larger grainsize at base with rip up shale clasts

Formation: Cymf
 Rock: VOFM
 Alteration: SOC6

Formation: Cymf
 Rock: SILT

427100

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

SHEET 7 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						DISSEMINATED	ROCK	ALTERATION
120		5/5						
121								
122		5/5						
123			Foliation					
124			Foliation					
125		2/5						
126								
127								
128								
129								
130		31/5				E45S	SILT	
131								
132								
133								
134								
135		35/5						
136								
137								
138								
139								
140		38/5						
REMARKS								

427101

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

SHEET 8 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						DISSEMINATED	ROCK	ALTERATION
140								
141								
142								
143								
144								
145		50/35						
146								
147								E45S SILT
148								
149		50/67						
150								
151								
152								
153		50/60						
154								
155								
156								
157								E45A
158								
159		50/60						
160								
REMARKS						○ IRREGULAR PYRITE		

pk - dark grey ashly siltstone
 diffuse bedding

f-mgr ashly dacite vlc est.

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

SHEET 9 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
						Alteration	ROCK	ALTERATION	
160					Thinly laminated bedding 158.7-160.5 160.5-169.5 massive with diffuse bedding				
161									
162									
163									
164		50/43						VDF	
165		50/60							
166									
167									
168									
169									
170		50/10			F-m gr. v. s. m. - abundant black siliceous fragments parallel to S. This interval essentially along bedding plane.			WDM	
171		50/20							
172		50/20							
173		50/20							
174									
175									
176									
177								VDF WDM	
178									
179		50/25							
180	REMARKS ⊕ deuterification nodules								

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

SHEET 10 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
						Alteration	ROCK	ALTERATION	
180									
181									
182									
183									
184		30/5							
185								VDF WDM	
186									
187									
188									
189		50/5							
190		50/8							
191					Thinly bedded cream-gray oxy siliceous.				
192									
193									
194		50/5							
195		50/5							
196									
197									
198									
199		50/5							
200	REMARKS								

427102

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

SHEET 11 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						VEGETATION	ROCK	ALTERATION
200							VDF	VDF
201					f-m grey ashly volcaniclastic sandstone			VDF
202								
203								
204								
205		50/38						
206								
207								
208		50/63						
209								
210		50/70						
211								
212								
213								
214								
215								
216		50/40						
217								
218								
219								
220		50/27						
REMARKS								

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RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

SHEET 12 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						VEGETATION	ROCK	ALTERATION
220								
221								
222								
223								
224								
225		50/51						
226								
227								
228								
229								
230								
231		50/47						
232								
233								
234								
235								
236								
237								
238								
239								
240								
REMARKS								

Eggs SILT
10m SILT

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH	SAMPLE No	ASSAY RESULTS		STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
		Pb	Zn					ROCK	ALTERATION	
240	67	29	80	T ₁ Z ₂						
241	68	54	742							
242	69	185	46							
243	70	135	112							
244	71	182	104							
245	72	506	1760							
246	73	780	3460							
247	74	86	132							
248	75	103	257							
249	76	156	119							
250	77	159	182							
251	78	202	211							
252	79	170	202							
253	81	170	306							
254	82	73	205							
255	83	207	621							
256	84	265	408							
257	85	293	677							
258	86	76	196							
259	87	208	400							
REMARKS										

427101

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH	SAMPLE No	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
		Pb	Zn	Ag					ROCK	ALTERATION	
260	88	191	243								
261	89	172	157								
262	90	143	326								
263	91	419	735								
264	92	543	1002								
265	93	342	837								
266	94	1392	3276								
267	95	425	3901								
268	96	2336	2760								
269	97	3250	5086								
270	98	739	1600								
271	99	727	1020								
272	501	603	940								
273	502	619	801								
274	503	544	1244								
275	504	385	1200								
276	505	121	178								
277	06	229	461								
278	07	179	405								
279	08	101	296								
280	09	306	541								
281	10	1000	1292								
REMARKS											

grey ashly siltstone

266-3-268 7 ashly siltstone breccia
 - hydrolic fractured siltstone unit
 at merge to fault

isothermal folding
 ductile slip set (F=707, Q=207)

sh sh

sh silty - greyish silt.

Dark grey ashly siltstone

E49
VDFM
SILT

Bx

E49
VDFM
SILT

E456
SILT

E49
VDFM
SILT

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

SHEET 15 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS		STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
		Pb	Zn					VEIN	ROCK	ALTERATION	
280	401	1028	1671	15-3							
281	2	308	489	13-1			Dark grey ashly siltstone				
282	3	168	375	13-7							
283	4	267	241	13-8							
284	5	787	1401	13-2							
285	6	986	1587	12-4							
286	7	921	1606	11-9							
287	8	1153	2117	12-0							
288	9	1144	2274	13-4			Pre-dominantly f.g. sericitic cream-grey calcified ashly siltstone. Diffuse bedding. Includes interbedded f.-cl. gr. ductile (S>g) volcanoclastic sandstone. Hydrothermal breccia forming carbonate stringers common.				
289	110	1426	2240	15-0							
290	11	1447	2089	12-8							
291	12	981	1414	13-1							
292	13	2086	4000	14-0							
293	14	1697	5511	13-2							
294	15	2488	6109	13-1							
295	16	2600	4796	18-0							
296	17	2941	4922	14-1							
297	18	3114	5270	14-2							
298	19	2982	5916	15-1							
299	421	4210	6228	15-2							

REMARKS
 * Lithogeochemical Sample

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

SHEET 16 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS		STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
		Pb	Zn					VEIN	ROCK	ALTERATION	
299	22	1119	2642	5-6			299.9-300.85 broken sericitic vdfm & abundant Qtz. with veining				
301	23	5679	7333	15-7							
302	24	3297	9210	13-9							
303	25	2201	5868	6-1			large vein - 75 Qtz 20 pink calc. s.l. disseminated sph. aggl.				
304	26	1498	4270	18-5							
305	27	5638	9884	18-1							
306	28	8137	14100	13-7							
307	29	8079	17100	16-2							
308	30	7287	15400	21-4							
309	31	5982	9988	16-9							
310	32	3885	7145	16-1							
311	33	1085	1966	12-5							
312	34	1622	1645	12-0							
313	35	757	1280	12-1							
314	36	216	601	12-4							
315	37	304	547	12-0							
316	38*	617	1221	12-1							
317	39	1052	2224	12-3							
318	41	1601	3135	12-1							
319	42	1338	3801	11-0							
320	43	730	1293	11-9							
321	44	1008	1928	12-3							

REMARKS * Lithogeochemical Sample

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RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 17 OF 20

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS		STRUCT.	GRAPHIC LOG		ALTERATION		GEOLOGY NOTES	SUMMARY		
		Pb	Zn		Tl/Zr	■	▨	█		▩	█	█
321	45	1642	2575	11.5	▨	▨			318-2-330 Sur-512 VDFM			
322	46*	5657	2052	12.4	▨	▨			Silicified clasts (inside bre) of vdfm in fine network of coarse microcrystallites			
323	47	4467	488	11.9	▨	▨						
324	48	234	208	11.9	▨	▨						
325	49	4911	2180	11.5	▨	▨						
326	50	1824	2547	12.1	▨	▨						
327	51	1609	3215	11.9	▨	▨						
328	52	481	1201	12.2	▨	▨						
329	53	1086	1519	12.1	▨	▨						
330	54	470	1498	11.5	▨	▨						
331	55	664	1044	12.2	▨	▨			330-355.2			
332	56	70	122	11.8	▨	▨			ch1- alb/sil altered tube porous breccia.			
333	57	122	220	12.2	▨	▨						
334	58	149	270	12.7	▨	▨						
335	59	43	107	11.6	▨	▨						
336	61	50	161	13.8	▨	▨						
337	62*	31	92	4.3	▨	▨						
338	63	17	107	10.8	▨	▨						
339	64	34	149	12.5	▨	▨						
340	65	33	67	12.3	▨	▨						

REMARKS * Lithochemical Sample

427105

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 18 OF 20

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS		STRUCT.	GRAPHIC LOG		ALTERATION		GEOLOGY NOTES	SUMMARY		
		Pb	Zn		■	▨	█	█		█	█	█
341					▨	▨			341-343 old altered amygdaloid dunite. Probably more intensely desulfurized zone (maybe more welded)			
342					▨	▨						
343					▨	▨						
344					▨	▨						
345					▨	▨			243-355.2			
346					▨	▨			Porous dunite vlc sol. (feldspar H rich)			
347					▨	▨						
348					▨	▨						
349					▨	▨						
350					▨	▨						
351					▨	▨						
352					▨	▨						
353					▨	▨						
354					▨	▨						
355					▨	▨						
356					▨	▨			355.2-368.2			
357					▨	▨			spherulitic, sparsely amygdaloid feldspar H rich unit. Contains similar abundance and size of feld than 343-355.2 m.			
358					▨	▨						
359					▨	▨						
360					▨	▨						

REMARKS

WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
263401	WSP5	280	281	5360883.5	376998.9	300.0	21	NA	1023	NA	1671	NA	NA
263402	WSP5	281	282	5360883.4	376999.3	299.1	17	NA	308	NA	489	NA	NA
263403	WSP5	282	283	5360883.4	376999.7	298.2	13	NA	168	NA	375	NA	NA
263404	WSP5	283	284	5360883.4	377000.1	297.3	17	NA	257	NA	241	NA	NA
263405	WSP5	284	285	5360883.3	377000.5	296.4	16	NA	769	NA	1401	NA	NA
263406	WSP5	285	286	5360883.3	377000.9	295.4	16	NA	965	NA	1589	NA	NA
263407	WSP5	286	287	5360883.3	377001.3	294.5	15	NA	921	NA	1606	NA	NA
263408	WSP5	287	288	5360883.2	377001.7	293.6	16	NA	1153	NA	2417	NA	NA
263409	WSP5	288	289	5360883.2	377002.1	292.7	14	NA	1144	NA	2274	NA	NA
263410	WSP5	289	290	5360883.1	377002.5	291.8	12	NA	1426	NA	2460	NA	NA
263411	WSP5	290	291	5360883.1	377002.9	290.9	12	NA	1447	NA	2069	NA	NA
263412	WSP5	291	292	5360883.1	377003.3	290.0	14	NA	981	NA	1414	NA	NA
263413	WSP5	292	293	5360883.0	377003.7	289.0	19	NA	2088	NA	4000	NA	NA
263414	WSP5	293	294	5360883.0	377004.1	288.1	16	NA	1659	NA	5511	NA	NA
263415	WSP5	294	295.1	5360882.9	377004.6	287.2	19	NA	2488	NA	6109	NA	NA
263416	WSP5	295.1	296	5360882.9	377005.0	286.3	18	NA	2600	NA	4998	NA	NA
263417	WSP5	296	297	5360882.9	377005.3	285.4	14	NA	2941	NA	4922	NA	NA
263418	WSP5	297	298	5360882.8	377005.7	284.5	14	NA	3114	NA	5270	NA	NA
263419	WSP5	298	299	5360882.8	377006.1	283.6	18	NA	2982	NA	5916	NA	NA
263421	WSP5	299	299.8	5360882.8	377006.5	282.7	28	NA	4044	NA	6228	NA	NA
263422	WSP5	299.8	300.85	5360882.7	377006.9	281.9	32	NA	1919	NA	3642	NA	NA
263423	WSP5	300.85	301.5	5360882.7	377007.2	281.1	26	NA	5679	NA	7333	NA	NA
263424	WSP5	301.5	302.3	5360882.6	377007.5	280.5	26	NA	3299	NA	9210	NA	NA
263425	WSP5	302.3	303	5360882.6	377007.8	279.8	22	NA	2201	NA	5843	NA	NA
263426	WSP5	303	303.6	5360882.6	377008.1	279.2	18	NA	1498	NA	4270	NA	NA
263427	WSP5	303.6	304.5	5360882.6	377008.4	278.5	31	NA	5638	NA	9884	NA	NA
263428	WSP5	304.5	305.1	5360882.5	377008.7	277.8	47	NA	8137	0.72	14700	1.47	NA
263429	WSP5	305.1	306	5360882.5	377009.0	277.1	55	NA	8079	0.82	17100	1.71	NA
263430	WSP5	306	307	5360882.4	377009.4	276.3	80	NA	7287	NA	15400	1.54	NA
263431	WSP5	307	308	5360882.4	377009.8	275.3	57	NA	5942	NA	9988	NA	NA
263432	WSP5	308	309	5360882.4	377010.2	274.4	32	NA	3885	NA	7145	NA	NA
263433	WSP5	309	310	5360882.3	377010.6	273.5	11	NA	1085	NA	1964	NA	NA
263434	WSP5	310	311	5360882.3	377011.0	272.6	15	NA	1622	NA	1645	NA	NA
263435	WSP5	311	312	5360882.2	377011.4	271.7	13	NA	757	NA	1280	NA	NA
263436	WSP5	312	313	5360882.2	377011.8	270.8	8	NA	216	NA	401	NA	NA

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WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
263437	WSP5	313	314	5360882.1	377012.2	269.9	8	NA	304	NA	547	NA	NA
263438	WSP5	314	315	5360882.1	377012.6	268.9	9	NA	617	NA	1221	NA	NA
263439	WSP5	315	316	5360882.0	377013.0	268.0	8	NA	1052	NA	2224	NA	NA
263441	WSP5	316	317	5360882.0	377013.4	267.1	23	NA	1601	NA	3135	NA	NA
263442	WSP5	317	318	5360881.9	377013.8	266.2	13	NA	1338	NA	3881	NA	NA
263443	WSP5	318	319	5360881.9	377014.2	265.3	9	NA	730	NA	1293	NA	NA
263444	WSP5	319	320	5360881.9	377014.6	264.4	11	NA	1008	NA	1928	NA	NA
263445	WSP5	320	321	5360881.8	377015.0	263.4	11	NA	1642	0.22	2575	NA	NA
263446	WSP5	321	322	5360881.8	377015.4	262.5	21	NA	5657	0.66	2052	NA	NA
263447	WSP5	322	323	5360881.7	377015.8	261.6	21	NA	4467	0.05	488	NA	NA
263448	WSP5	323	324	5360881.7	377016.2	260.7	20	NA	234	0.03	208	NA	NA
263449	WSP5	324	325	5360881.6	377016.6	259.8	24	NA	4991	0.5	2180	NA	NA
263450	WSP5	325	326	5360881.6	377017.0	258.9	22	NA	1824	0.27	2547	NA	NA
263451	WSP5	326	327	5360881.5	377017.4	257.9	12	NA	1609	NA	3215	NA	NA
263452	WSP5	327	328	5360881.5	377017.8	257.0	7	NA	481	NA	1021	NA	NA
263453	WSP5	328	329	5360881.4	377018.2	256.1	13	NA	1086	NA	1519	NA	NA
263454	WSP5	329	330	5360881.4	377018.6	255.2	22	NA	1170	NA	1698	NA	NA
263455	WSP5	330	331	5360881.3	377019.0	254.3	11	NA	664	NA	1044	NA	NA
263456	WSP5	331	332	5360881.3	377019.4	253.4	11	NA	70	NA	122	NA	NA
263457	WSP5	332	333	5360881.2	377019.8	252.4	9	NA	122	NA	220	NA	NA
263458	WSP5	333	334	5360881.2	377020.1	251.5	10	NA	169	NA	270	NA	NA
263459	WSP5	334	335	5360881.1	377020.5	250.6	18	NA	43	NA	107	NA	NA
263461	WSP5	335	336	5360881.1	377020.9	249.7	12	NA	50	NA	161	NA	NA
263462	WSP5	336	337	5360881.0	377021.3	248.8	17	NA	31	NA	92	NA	NA
263463	WSP5	337	338	5360881.0	377021.7	247.9	6	NA	17	NA	107	NA	NA
263464	WSP5	338	339	5360880.9	377022.1	246.9	4	NA	34	NA	149	NA	NA
263465	WSP5	339	340	5360880.9	377022.5	246.0	14	NA	33	NA	67	NA	NA
263466	WSP5	379.5	380	5360878.9	377038.7	209.2	10	NA	-3	NA	33	NA	NA
263467	WSP5	240	241.1	5360884.8	376982.9	336.6	26	NA	29	NA	80	NA	NA
263468	WSP5	241.1	242	5360884.8	376983.3	335.7	47	NA	54	NA	242	NA	NA
263469	WSP5	242	242.9	5360884.7	376983.7	334.9	52	NA	185	NA	614	NA	NA
263470	WSP5	242.9	244	5360884.7	376984.1	334.0	34	NA	135	NA	112	NA	NA
263471	WSP5	244	244.9	5360884.6	376984.5	333.0	51	NA	182	NA	104	NA	NA
263472	WSP5	244.9	246	5360884.6	376984.9	332.1	31	NA	546	NA	1960	NA	NA
263473	WSP5	246	246.8	5360884.6	376985.2	331.2	32	NA	780	NA	3460	NA	NA

WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
263474	WSP5	246.8	247.5	5360884.5	376985.5	330.6	55	NA	86	NA	132	NA	NA
263475	WSP5	247.5	249	5360884.5	376986.0	329.6	87	NA	143	NA	287	NA	NA
263476	WSP5	249	250	5360884.5	376986.5	328.4	78	NA	156	NA	119	NA	NA
263477	WSP5	250	251	5360884.4	376986.9	327.5	100	NA	159	NA	182	NA	NA
263478	WSP5	251	252	5360884.4	376987.3	326.6	118	NA	248	NA	211	NA	NA
263479	WSP5	252	253	5360884.3	376987.6	325.7	85	NA	174	NA	202	NA	NA
263481	WSP5	253	254	5360884.3	376988.0	324.7	56	NA	190	NA	304	NA	NA
263482	WSP5	254	255	5360884.3	376988.4	323.8	50	NA	93	NA	205	NA	NA
263483	WSP5	255	256	5360884.2	376988.8	322.9	40	NA	247	NA	881	NA	NA
263484	WSP5	256	257	5360884.2	376989.2	322.0	44	NA	365	NA	408	NA	NA
263485	WSP5	257	258	5360884.2	376989.6	321.1	48	NA	293	NA	477	NA	NA
263486	WSP5	258	259	5360884.1	376990.0	320.2	52	NA	76	NA	194	NA	NA
263487	WSP5	259	260	5360884.1	376990.4	319.2	57	NA	204	NA	400	NA	NA
263488	WSP5	260	261	5360884.1	376990.8	318.3	35	NA	191	NA	243	NA	NA
263489	WSP5	261	262	5360884.0	376991.2	317.4	16	NA	172	NA	157	NA	NA
263490	WSP5	262	262.6	5360884.0	376991.6	316.7	15	NA	143	NA	326	NA	NA
263491	WSP5	262.6	263.5	5360884.0	376991.9	316.0	14	NA	419	NA	193	NA	NA
263492	WSP5	263.5	264.5	5360884.0	376992.2	315.1	17	NA	543	NA	1002	NA	NA
263493	WSP5	264.5	265.5	5360883.9	376992.6	314.2	13	NA	342	NA	837	NA	NA
263494	WSP5	265.5	266.4	5360883.9	376993.0	313.3	18	NA	1392	NA	3276	NA	NA
263495	WSP5	266.4	267	5360883.9	376993.3	312.6	17	NA	425	NA	3901	NA	NA
263496	WSP5	267	267.9	5360883.9	376993.6	312.0	24	NA	2336	NA	3760	NA	NA
263497	WSP5	267.9	268.5	5360883.8	376993.9	311.3	38	NA	3250	NA	5036	NA	NA
263498	WSP5	268.5	269.3	5360883.8	376994.2	310.6	35	NA	739	NA	1600	NA	NA
263499	WSP5	269.3	270	5360883.8	376994.5	309.9	50	NA	727	NA	1030	NA	NA
263501	WSP5	270	271	5360883.8	376994.8	309.2	100	NA	603	NA	940	NA	NA
263502	WSP5	271	272	5360883.7	376995.3	308.3	61	NA	619	NA	841	NA	NA
263503	WSP5	272	273	5360883.7	376995.7	307.3	63	NA	544	NA	1244	NA	NA
263504	WSP5	273	274	5360883.7	376996.1	306.4	77	NA	385	NA	1200	NA	NA
263505	WSP5	274	275	5360883.7	376996.5	305.5	57	NA	121	NA	178	NA	NA
263506	WSP5	275	276	5360883.6	376996.9	304.6	24	NA	229	NA	461	NA	NA
263507	WSP5	276	277	5360883.6	376997.3	303.7	16	NA	179	NA	405	NA	NA
263508	WSP5	277	278	5360883.6	376997.7	302.8	24	NA	101	NA	296	NA	NA
263509	WSP5	278	279	5360883.5	376998.1	301.8	51	NA	306	NA	541	NA	NA
263510	WSP5	279	280	5360883.5	376998.5	300.9	18	NA	1000	NA	1292	NA	NA

WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
263401	-5	-1	21	NA	10	1480	-2	NA	174	8	53	12	1
263402	-5	-1	13	NA	-5	1410	-2	NA	122	6	30	10	1.2
263403	-5	-1	9	NA	-5	873	-2	NA	132	5	54	6	1.2
263404	-5	-1	9	NA	-5	892	-2	NA	116	7	28	8	1
263405	-5	-1	8	NA	-5	1100	-2	NA	133	6	51	8	1.1
263406	-5	-1	14	NA	-5	1150	-2	NA	132	7	43	10	1.3
263407	-5	-1	18	NA	-5	843	-2	NA	146	8	119	6	1.2
263408	-5	-1	13	NA	-5	1210	-2	NA	135	5	40	7	1.5
263409	-5	-1	21	NA	-5	580	-2	NA	140	6	160	4	1.5
263410	-5	-1	16	NA	-5	925	-2	NA	139	7	39	7	1.4
263411	-5	-1	20	NA	-5	1210	-2	NA	133	7	129	6	1.1
263412	-5	-1	19	NA	-5	1220	-2	NA	139	8	55	5	1.3
263413	-5	-1	43	NA	-5	1000	-2	NA	130	10	158	6	1.7
263414	-5	-1	69	NA	-5	870	-2	NA	124	9	80	5	1.8
263415	-5	-1	29	NA	-5	1200	-2	NA	168	10	117	7	2
263416	-5	-1	132	NA	-5	1150	-2	NA	126	7	16	8	2.2
263417	-5	-1	34	NA	-5	966	-2	NA	120	5	48	7	1.7
263418	-5	-1	24	NA	-5	1060	-2	NA	111	4	10	10	1.7
263419	-5	-1	62	NA	-5	918	-2	NA	118	7	45	11	1.9
263421	-5	-1	77	NA	-5	1160	-2	NA	133	7	-5	12	1.7
263422	-5	-1	313	NA	-5	993	-2	NA	165	5	142	13	1.7
263423	-5	-1	70	NA	-5	912	-2	NA	73	5	10	13	1.6
263424	-5	-1	57	NA	-5	1060	-2	NA	133	5	41	11	1.6
263425	-5	-1	44	NA	-5	909	-2	NA	116	3	20	6	1.3
263426	-5	-1	11	NA	-5	325	-2	NA	17	3	388	4	0.6
263427	-5	-1	101	NA	-5	1250	-2	NA	105	7	30	11	2
263428	-5	-1	72	NA	-5	1170	-2	NA	86	8	46	11	1.6
263429	-5	-1	178	NA	-5	933	-2	NA	106	13	50	9	1.8
263430	-5	-1	99	NA	-5	576	-2	NA	68	12	104	6	1.4
263431	-5	-1	115	NA	-5	1200	-2	NA	116	11	39	10	1.8
263432	-5	-1	49	NA	-5	1080	-2	NA	129	7	64	12	1.6
263433	-5	-1	33	NA	-5	1400	-2	NA	167	7	-5	17	1.8
263434	-5	-1	10	NA	-5	1110	-2	NA	144	6	48	15	1.8
263435	-5	-1	11	NA	-5	1110	-2	NA	138	4	-5	12	1.9
263436	-5	-1	9	NA	-5	1080	-2	NA	119	4	95	9	1.7

407111

WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
263437	-5	-1	12	NA	-5	1140	-2	NA	127	4	6	10	1.6
263438	-5	-1	8	NA	20	1140	-2	NA	114	3	118	9	1.5
263439	-5	-1	47	NA	-5	1030	-2	NA	124	3	8	8	1.7
263441	-5	-1	27	NA	-5	891	-2	NA	110	5	135	5	1.4
263442	-5	-1	44	NA	-5	405	-2	NA	112	2	-5	4	0.9
263443	-5	-1	18	NA	-5	334	-2	NA	101	4	195	3	1.6
263444	-5	-1	35	NA	-5	758	-2	NA	122	3	-5	5	1.7
263445	-5	-1	39	NA	-5	440	-2	NA	98	-1	137	3	1.5
263446	-5	-1	159	NA	-5	677	-2	NA	111	3	7	6	1.6
263447	-5	-1	105	NA	-5	378	-2	NA	91	3	138	6	1.6
263448	-5	-1	42	NA	-5	475	-2	NA	112	4	-5	10	1.4
263449	-5	-1	88	NA	-5	511	-2	NA	102	4	143	9	1.2
263450	-5	-1	70	NA	-5	1030	-2	NA	137	3	-5	10	1.7
263451	-5	-1	24	NA	-5	738	-2	NA	126	3	110	7	1.6
263452	-5	-1	32	NA	10	461	-2	NA	107	-1	10	2	1.4
263453	-5	-1	42	NA	-5	509	-2	NA	112	3	126	4	1.3
263454	-5	-1	28	NA	-5	936	-2	NA	125	3	6	7	1.7
263455	-5	-1	74	NA	-5	633	-2	NA	121	2	118	5	1.3
263456	-5	-1	7	NA	-5	207	-2	NA	113	-1	9	2	1.6
263457	-5	-1	7	NA	-5	-100	-2	NA	109	2	145	2	1.8
263458	-5	-1	6	NA	-5	135	-2	NA	112	3	8	1	1.6
263459	-5	-1	6	NA	-5	-100	-2	NA	104	-1	174	2	1.1
263461	-5	-1	7	NA	-5	153	-2	NA	134	5	13	2	1.4
263462	-5	-1	7	NA	-5	204	-2	NA	122	3	150	2	1.6
263463	-5	-1	14	NA	-5	217	-2	NA	113	-1	9	1	1.6
263464	-5	-1	7	NA	-5	979	-2	NA	141	5	77	6	1.8
263465	-5	-1	15	NA	-5	1030	-2	NA	112	4	-5	8	1.7
263466	-5	-1	6	NA	-5	1580	-2	NA	123	4	102	6	1.7
263467	-5	-1	31	NA	-5	1420	-2	3.2	101	9	52	12	1.9
263468	-5	-1	196	NA	-5	954	-2	1.2	97	13	69	10	1.5
263469	-5	-1	27	NA	-5	834	-2	1.3	84	15	121	8	1.2
263470	-5	-1	37	NA	-5	1060	-2	1.7	120	17	68	9	1.9
263471	-5	-1	54	NA	-5	866	-2	-1	110	32	123	9	1.6
263472	-5	-1	49	NA	-5	903	-2	3	107	14	68	11	2
263473	-5	-1	30	NA	-5	1250	-2	2.9	119	11	89	14	1.8

407412

WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
263474	-5	-1	19	NA	-5	712	-2	2.3	80	12	100	7	1.2
263475	-5	-1	36	NA	10	814	-2	1.4	100	16	120	8	1.2
263476	-5	-1	15	NA	10	855	-2	-1	106	13	104	6	1.3
263477	-5	-1	20	NA	-5	567	-2	2.6	90	11	126	6	1.9
263478	-5	-1	12	NA	-5	1090	-2	-1	108	13	86	10	0.9
263479	-5	-1	13	NA	-5	944	-2	1.9	119	13	125	9	1.6
263481	-5	-1	17	NA	-5	819	-2	2.3	74	14	80	8	1.3
263482	-5	-1	12	NA	-5	828	-2	1.6	106	10	139	8	1.4
263483	-5	-1	110	NA	-5	727	-2	4.4	124	11	61	7	2
263484	-5	-1	15	NA	-5	912	-2	1.8	99	12	104	9	1.1
263485	-5	-1	13	NA	10	921	-2	2.1	104	12	70	10	1.4
263486	-5	-1	16	NA	-5	1060	-2	-1	129	16	91	9	1.2
263487	-5	-1	16	NA	-5	1050	-2	-1	125	14	73	9	1.2
263488	-5	-1	15	NA	-5	1190	-2	1.4	130	12	64	10	1.2
263489	-5	-1	15	NA	-5	1210	-2	-1	132	7	36	10	1
263490	-5	-1	11	NA	-5	1150	-2	1.8	136	6	49	9	1.4
263491	-5	-1	12	NA	-5	981	-2	1.3	138	5	33	8	1.5
263492	-5	-1	13	NA	-5	1100	-2	-1	169	7	60	8	1.1
263493	-5	-1	13	NA	-5	1270	-2	-1	140	7	36	7	1
263494	-5	-1	22	NA	-5	1070	-2	-1	162	8	67	7	1.3
263495	-5	1	60	NA	-5	1090	-2	1.3	134	8	30	17	1.4
263496	-5	3	96	NA	-5	1090	-2	1.7	123	8	45	13	1.5
263497	-5	3	116	NA	-5	954	-2	1.2	109	6	40	14	1.6
263498	-5	1	76	NA	10	1320	-2	-1	92	8	73	13	1
263499	-5	1	43	NA	-5	821	-2	2	95	12	76	11	1.1
263501	-5	2	41	NA	-5	1150	-2	2	106	12	100	14	1.6
263502	-5	1	39	NA	-5	954	-2	1.6	111	15	70	11	1.2
263503	-5	-1	22	NA	10	955	-2	1.8	146	16	96	11	1.4
263504	-5	-1	65	NA	-5	970	-2	1.1	132	15	72	12	1.2
263505	-5	-1	29	NA	-5	1040	-2	-1	110	15	94	12	1
263506	-5	-1	13	NA	-5	1280	-2	1.1	139	7	38	12	1.3
263507	-5	-1	13	NA	-5	1180	-2	1.4	159	8	52	11	1.5
263508	-5	-1	20	NA	-5	744	-2	2.1	154	9	48	8	1.3
263509	-5	-1	41	NA	-5	1400	-2	1.3	147	13	91	11	1.4
263510	-5	-1	29	NA	-5	1690	-2	-1	154	9	41	13	1.2

427113

WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
263401	1.68	4.5	-20	3.4	82.2	0.6	-5	0.22	200	2.4	6.4	-5	9.7
263402	1.59	4.8	-20	3.1	54.5	0.6	-5	0.75	175	1.8	5.6	-5	7.6
263403	1.5	4.1	-20	2	59.4	0.4	-5	2.23	90	1.3	5	-5	8.1
263404	1.68	4.6	-20	1.7	51.4	0.5	-5	2.75	110	1.6	5.2	-5	7.3
263405	1.64	4.2	-20	1.5	60.3	0.5	-5	2.27	100	1.6	5.3	-5	8.2
263406	2.24	5.9	-20	2.4	58.7	0.5	-5	1.7	130	2.6	6.7	-5	8.7
263407	1.73	5.9	-20	1.6	63.9	0.5	-5	3.09	80	3.1	6.1	-5	8.9
263408	1.67	5.4	-20	1.6	59.6	0.5	-5	2.56	90	2.5	5.5	-5	8.5
263409	1.35	4.9	-20	1	62.7	0.4	-5	3.26	50	3	5.1	-5	8.4
263410	1.88	5.5	-20	1.2	62.4	0.5	-5	2.56	60	2.8	5.6	-5	8.8
263411	1.81	6.6	-20	1.5	58.7	0.6	-5	2.81	105	3.6	6.6	-5	8.7
263412	2.09	6.6	-20	1.8	60.1	0.5	-5	2.64	100	3.4	7.1	-5	9
263413	2.87	8.3	-20	1.8	56.9	0.5	-5	2.42	100	7.8	11.9	-5	10.1
263414	2.49	6.9	-20	1.1	55.5	0.4	-5	2.11	80	5.8	8.1	-5	8.8
263415	1.92	6.7	-20	2.1	75.2	0.5	-5	1.7	110	6.4	8.7	-5	12.2
263416	2.05	5	-20	2.1	54.6	0.5	-5	3.24	145	10.5	15.9	-5	10.8
263417	2	5.8	-20	2.9	51.3	0.5	-5	2.65	135	9	12.1	-5	9.8
263418	1.84	6	-20	3.4	47.1	0.6	-5	1.76	160	7.9	12.1	-5	8.7
263419	1.81	5.6	-20	3.1	50.7	0.6	-5	1.93	165	7.4	15.4	-5	9.9
263421	2.07	6.8	-20	4.2	57.4	0.7	-5	1.03	230	10.9	14.1	-5	11
263422	2.86	6.9	-20	2.9	73.2	0.8	-5	0.08	170	15.1	9.9	-5	12.3
263423	1.79	4.5	-20	3.4	31.1	0.5	-5	0.9	180	12.7	13.1	-5	7.5
263424	1.74	6	-20	4.1	59	0.6	-5	1.13	195	8.4	13	-5	10.4
263425	1.99	5.5	-20	2.7	49.5	0.5	-5	0.09	140	5.3	8.4	-5	9.5
263426	2.17	1.5	-20	1.2	6.5	0.4	-5	0.06	65	4.3	5.7	-5	2.1
263427	2.16	6.6	-20	4.4	46.4	0.5	-5	0.11	235	13.4	16	-5	9.9
263428	1.86	5.6	-20	4.4	38.1	0.5	-5	0.2	220	14.6	13.1	-5	7.7
263429	2.3	5.3	-20	3.4	47.7	0.5	-5	0.08	180	15.8	13.5	-5	9
263430	2.47	3.3	-20	2.5	30.6	0.3	-5	0.06	130	15.8	11.7	-5	6.6
263431	2.47	7	-20	4.2	50.7	0.5	-5	0.11	220	12.5	14.7	8	10.3
263432	2.05	6.4	-20	3.5	56.5	0.5	-5	0.18	185	9.8	13	-5	10.7
263433	2.4	9.1	-20	5.6	73.7	0.7	-5	0.25	285	5	14.3	-5	12.7
263434	3.12	7.9	-20	4.1	64.5	0.7	-5	0.35	215	6.7	12.2	-5	11
263435	2.35	7.4	-20	3.2	60.5	0.7	-5	1.01	160	4.8	11.1	-5	10.6
263436	2.36	6.5	-20	2.3	51.4	0.7	-5	1.65	120	3.9	10.1	-5	9.4

A09114

WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
263437	2.14	6.8	-20	2.5	55.3	0.6	-5	1.88	125	4.2	10.5	-5	10.3
263438	2.25	6.3	-20	2.5	49.7	0.6	-5	1.89	110	4	9.8	-5	9.3
263439	2.17	6	-20	2.1	54.6	0.7	-5	2.01	105	4.7	9.9	-5	10.5
263441	1.95	6	-20	2.1	46.3	0.6	-5	2.3	85	5.7	9.2	-5	8.7
263442	1.98	5.3	-20	1.3	50.8	0.5	-5	3.01	35	6.8	8	-5	9.3
263443	1.73	5.5	-20	0.9	46.4	0.5	-5	4.03	30	5.8	8.2	-5	8.7
263444	2.04	6.2	-20	1.3	51.8	0.6	-5	3.56	80	7.1	9.8	-5	10.3
263445	2.02	5.5	-20	1.3	42.1	0.5	-5	3.56	65	7.7	9	-5	8.6
263446	2.79	6.2	-20	1.9	49.1	0.6	-5	2.31	60	18.9	9.5	-5	9.8
263447	2.84	5.5	-20	1.3	38.1	0.5	-5	3.4	35	24.6	8.7	-5	8
263448	4.12	5.4	-20	1.3	51.6	0.5	-5	2.78	70	18.8	8.6	-5	8.6
263449	2.39	5.3	-20	1.2	45.4	0.5	-5	2.73	55	29.3	7.9	-5	8.8
263450	2.54	7.3	-20	2.4	57.4	0.7	-5	2.45	105	15.8	11.2	-5	11.5
263451	2.17	6.2	-20	1.8	55.3	0.6	-5	3.01	85	8.8	9.8	-5	11
263452	1.95	4.5	-20	0.5	49	0.5	-5	3.53	-20	5.4	7.2	-5	9.3
263453	2.35	6.2	-20	1	50.4	0.6	-5	4.02	45	14.1	9.5	-5	9.4
263454	2.71	6.4	-20	2.3	55	0.6	-5	2.53	120	36.5	9.6	-5	9.4
263455	2.13	5.9	-20	1.1	51.4	0.6	-5	3.74	50	13.6	9.7	-5	10.1
263456	2.18	5.7	-20	-0.2	47.7	0.5	-5	4.43	-20	5.3	8.9	-5	9.5
263457	2.31	6.1	-20	-0.2	46.7	0.6	-5	4.62	30	2.1	8.9	-5	10.2
263458	1.98	5.2	-20	-0.2	52	0.5	-5	4.56	-20	1.8	8.1	-5	8.9
263459	1.7	5.5	-20	0.5	44.8	0.5	-5	4.61	-20	2	8.1	-5	8.5
263461	2.44	6.9	-20	-0.2	59	0.6	-5	5.02	-20	1.6	10.2	-5	10.6
263462	2	5.8	-20	0.4	53.2	0.6	-5	4.91	-20	2.5	9.3	-5	10.1
263463	2.59	5.8	-20	-0.2	49.3	0.5	-5	4.46	-20	4.1	9	-5	9.3
263464	3.19	7.2	-20	1.6	58.4	0.8	-5	3.4	90	2.9	11.6	-5	11.8
263465	2.25	6.5	-20	2.4	47.2	0.6	-5	1.76	130	4.9	9.2	-5	9.3
263466	2.35	6.1	-20	3	52.4	0.7	-5	2.15	120	1.3	9.6	-5	9.9
263467	2.83	5.7	-20	4.5	45	0.4	-5	1.88	235	3.9	16.2	-5	9.2
263468	3.61	5.3	-20	3	42.2	0.5	-5	0.84	185	5	13.9	-5	8.1
263469	3.47	5.1	-20	2.5	37.8	0.5	-5	0.35	135	6.2	14	-5	7.1
263470	3.92	6.6	-20	3.1	52	0.7	-5	0.38	155	5.7	13.4	-5	9.8
263471	5.59	5.9	-20	2.5	48.3	0.6	-5	0.45	125	9	15.2	-5	9.6
263472	3.97	7	-20	3.3	44.2	0.5	-5	1	195	5.7	20.7	-5	10.4
263473	3.59	6.7	-20	4.6	49.7	0.5	-5	1.13	230	5.1	20.7	-5	11.4

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WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
263474	4.15	4.4	-20	2.4	35.7	0.5	-5	0.6	130	5.9	12.8	-5	6.7
263475	5.51	5.4	-20	2.3	44.4	0.5	-5	0.64	125	5	13.4	-5	8
263476	5.32	4.7	-20	2.1	44.3	0.5	-5	0.7	135	5.4	13.7	-5	8.4
263477	3.93	4	-20	1.5	40.2	0.4	-5	0.5	85	4.5	9.6	-5	8
263478	3.79	6.6	-20	3.3	48.8	0.6	-5	0.83	165	4.4	13.1	-5	8.4
263479	3.85	5.5	-20	2.6	52.7	0.5	-5	0.75	135	4.6	12.3	-5	9.4
263481	3.35	5	-20	2.8	32.7	0.4	-5	0.88	120	3.4	12.5	-5	6
263482	2.79	5.6	-20	2.9	46.1	0.6	-5	1.34	145	4.5	12.5	-5	8.4
263483	2.74	5.8	-20	2.2	52.9	0.6	-5	1.63	115	5.1	10.3	-5	9.9
263484	2.76	6.3	-20	2.3	42.5	0.5	-5	2.48	145	6.1	14.5	-5	8.2
263485	3.16	6	-20	2.8	46.5	0.6	16	1.92	150	5.6	13	-5	8.4
263486	3.29	5.1	-20	2.8	57.6	0.5	-5	1.18	135	6.5	10.3	-5	8.7
263487	3.04	5	-20	2.6	55.7	0.5	-5	1.12	150	7.8	9.1	-5	8
263488	2.59	5.1	-20	2.9	58.2	0.5	-5	0.7	180	6.2	7.8	-5	8.3
263489	2.07	4.7	-20	3.2	61.3	0.5	-5	0.61	185	5.7	6.5	-5	8.1
263490	1.89	4.5	-20	2.6	61.4	0.6	-5	1.03	160	7.2	5.9	-5	8.3
263491	1.83	4.5	-20	2.3	63.9	0.5	-5	1.6	135	4.7	5.7	-5	8.6
263492	1.63	5.1	-20	2.8	78	0.6	-5	2.18	145	3.7	5.9	-5	9.7
263493	1.76	5.2	-20	2.7	66.1	0.5	-5	2.09	110	4.9	5.6	-5	8.3
263494	1.54	4.8	-20	1.5	76.1	0.5	-5	1.94	120	4.3	5.3	-5	9.2
263495	1.57	4	-20	3	62.3	0.5	-5	0.07	165	4.3	5.3	-5	7.9
263496	2.07	3.9	-20	3	56.8	0.5	-5	0.06	160	7.6	5.5	-5	7.8
263497	2.42	5.9	-20	3.1	50	0.7	-5	0.51	165	14.3	10.2	-5	9.1
263498	2.82	6.7	-20	3.2	39.8	0.7	-5	0.48	175	20.3	10.9	-5	7.5
263499	2.79	6.4	-20	2.2	40.5	0.5	-5	1.88	115	13.4	12.3	-5	8.2
263501	3.02	6.1	-20	3.5	45.1	0.6	-5	1.23	180	12.4	13.8	-5	8.6
263502	2.9	4.9	-20	2.8	49.9	0.5	-5	1.08	140	11.9	9.4	-5	7.8
263503	2.89	5	-20	3.1	64.8	0.6	-5	1.18	145	12.5	9.5	-5	10.1
263504	2.91	5.1	-20	2.8	60.2	0.5	-5	1.03	130	17.6	9	-5	8.7
263505	3.09	4.7	-20	2	49.5	0.5	-5	1.41	150	13.6	8.5	-5	7.7
263506	2.14	4.6	-20	3.2	64	0.6	-5	0.76	180	2.1	6.8	-5	8.5
263507	2.26	4.8	-20	2.8	73.1	0.6	-5	1.43	160	1.1	7	-5	10.2
263508	2.34	4.8	-20	2	70.3	0.5	-5	2.39	115	1.7	7.1	-5	9.2
263509	2.9	4.9	-20	3.9	67.2	0.5	-5	0.64	190	4.4	8.5	-5	9.2
263510	1.92	4.8	-20	4.1	71	0.6	-5	0.15	230	3.1	7.5	-5	9.2

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WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
263401	2	NA	35.8	11	-2	3.4	1470	NA	70.77	0.36	13.11	2.5	1.86
263402	2	NA	34.4	11	-2	3.4	463	NA	71.08	0.32	12.92	2.41	1.68
263403	3	NA	32.6	9	-2	3	419	NA	74.53	0.29	11.91	2.31	1.36
263404	2	NA	34.7	10	-2	3.3	283	NA	72.88	0.32	12.72	2.63	1.21
263405	1	NA	34.7	11	-2	3.2	1190	NA	72.9	0.31	12.56	2.46	1.41
263406	3	NA	29.9	9	-2	3.7	1430	NA	59.54	0.39	12.59	3.4	2.39
263407	3	NA	34.1	10	-2	3.4	1360	NA	71.4	0.38	13.15	2.69	1.29
263408	3	NA	32.5	11	-2	3.4	2100	NA	71.48	0.35	12.34	2.57	1.47
263409	3	NA	31	10	-2	3	2030	NA	72.85	0.36	11.72	2.19	1.25
263410	2	NA	32.5	9	3	3.2	2180	NA	67.64	0.42	12.13	2.88	1.86
263411	2	NA	33.8	9	-2	3.5	1950	NA	69.83	0.45	12.51	2.67	1.64
263412	2	NA	33.2	10	-2	3.5	1120	NA	70.42	0.47	13.12	3.14	1.8
263413	1	NA	19.6	9	-2	3.5	3610	NA	58.55	0.62	12.45	4.12	2.46
263414	1	NA	24.8	9	-2	3.1	4860	NA	65.51	0.49	12.27	3.77	2.3
263415	4	NA	27.4	9	-2	3.3	5420	NA	67.96	0.5	12.91	2.8	2.02
263416	2	NA	11.3	16	-2	3.1	4450	NA	61.72	0.61	17.3	3.14	1.64
263417	2	NA	15.5	13	-2	3.7	4210	NA	61.53	0.53	17.21	3.08	1.98
263418	1	NA	17.9	13	-2	4	4650	NA	61.96	0.56	16.95	2.87	1.91
263419	1	NA	14	12	-2	3.9	5080	NA	58.12	0.56	17.95	2.81	2.12
263421	-1	NA	17.7	15	-2	4.4	5770	NA	59.1	0.57	17.5	2.97	2.02
263422	2	NA	23.2	6	-2	4.9	3220	NA	68.04	0.23	13.05	4.13	1.67
263423	-1	NA	12	13	-2	3.2	6540	NA	60.93	0.52	16.18	2.65	2.03
263424	2	NA	15.2	13	-2	3.7	8150	NA	59.74	0.52	17.99	2.56	1.93
263425	-1	NA	20.9	7	-2	3.7	5310	NA	71.48	0.2	11.13	2.9	1.67
263426	-1	NA	4.4	-2	-2	2.8	4100	NA	74.34	0.16	5.27	3.08	2.43
263427	1	NA	17.8	14	-2	3.6	9190	NA	52.97	0.82	18.84	3.35	2.44
263428	-1	NA	12.8	13	-2	3.3	14400	NA	55.45	0.52	17.4	2.8	2.44
263429	1	NA	15.5	8	-2	3	16500	NA	61.23	0.59	14.11	3.46	2.03
263430	-1	NA	11.1	5	-2	2.4	15300	NA	68.41	0.51	9.94	3.71	1.65
263431	1	NA	18	12	-2	3.7	9720	NA	58.64	0.63	16.53	3.62	2.16
263432	2	NA	16.4	9	-2	3.7	6760	NA	62.26	0.6	14.49	2.97	2.23
263433	-1	NA	28.7	9	-2	5	1970	NA	54.68	0.64	19.16	3.3	2.81
263434	1	NA	24.5	5	-2	4.4	1440	NA	57.89	0.58	17.2	4.61	2.47
263435	1	NA	22.5	6	-2	4.7	1200	NA	63.95	0.53	16.02	3.54	2.53
263436	-1	NA	20.4	6	-2	4.3	389	NA	66.32	0.48	14.26	3.39	2.07

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WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
263437	-1	NA	21.2	6	-2	4.2	476	NA	65.46	0.51	15.18	3.19	1.47
263438	-1	NA	19.7	5	-2	4.1	1070	NA	67.4	0.47	14.2	3.26	1.29
263439	1	NA	19.7	6	-2	4.3	2150	NA	65.62	0.47	13.9	3.31	1.35
263441	4	NA	18.2	5	-2	3.8	2850	NA	67.08	0.46	14.09	3.09	1.17
263442	4	NA	16.8	5	-2	3.2	3730	NA	67.4	0.37	12.32	3.07	1.29
263443	4	NA	17.8	4	-2	3.1	1190	NA	72.26	0.41	13.05	2.89	0.76
263444	4	NA	19.8	6	-2	4	1850	NA	67.33	0.51	15.01	3.4	0.84
263445	5	NA	18.5	4	-2	3.4	2300	NA	67.97	0.46	14.02	3.26	0.81
263446	4	NA	19	5	-2	3.7	1850	NA	64.6	0.46	13.9	4.38	1.22
263447	5	NA	18.4	5	-2	3.1	499	NA	67.24	0.46	13.33	4.49	0.75
263448	2	NA	17.4	5	-2	3.5	238	NA	67.09	0.41	13.37	6.37	0.71
263449	3	NA	16.8	5	-2	3.6	2090	NA	65.43	0.4	11.98	3.69	1.27
263450	2	NA	21.2	6	-2	4.7	2390	NA	61.56	0.52	15.33	4.02	1.55
263451	3	NA	20.5	5	-2	3.9	2900	NA	64.78	0.48	14.36	3.48	1.23
263452	2	NA	14.5	5	-2	3.4	851	NA	69.52	0.36	11.56	3.05	1.17
263453	4	NA	19.3	4	-2	4.2	1260	NA	68.18	0.46	14.09	3.76	1.19
263454	-1	NA	19.5	6	-2	4	1490	NA	60.93	0.45	14.22	4.24	1.76
263455	3	NA	19.6	5	-2	4	903	NA	68.58	0.49	14.82	3.42	1.28
263456	3	NA	17.7	5	-2	3.5	192	NA	71.41	0.43	13.45	3.36	1.04
263457	4	NA	18.7	5	-2	3.9	274	NA	70.34	0.45	13.73	3.68	1.23
263458	4	NA	17	6	-2	3.2	339	NA	72.3	0.42	13.02	3.16	1.06
263459	2	NA	16.7	3	-2	3.2	167	NA	72.5	0.4	13.04	2.76	0.97
263461	2	NA	20.7	6	-2	3.9	134	NA	69.92	0.51	14.66	3.97	1.41
263462	3	NA	18.8	5	-2	3.9	-100	NA	71.5	0.46	14.1	3.36	1.19
263463	5	NA	18.3	5	-2	3.7	159	NA	70.37	0.45	14.06	4.12	1.47
263464	3	NA	24.3	6	-2	5.2	207	NA	63.27	0.58	16.56	4.79	2.11
263465	3	NA	19.4	5	-2	4	-100	NA	69.3	0.45	13.67	3.34	1.32
263466	2	NA	19.7	5	-2	4.2	-100	NA	68.6	0.48	14.2	3.57	0.94
263467	2	-20	9.8	10	-2	2.8	111	NA	53.5	0.56	19.4	4	1.97
263468	-1	-20	13.4	10	-2	3.1	243	NA	64.3	0.55	14.6	5.2	2.6
263469	1	-20	14.8	8	-2	3.1	678	NA	68	0.52	12	4.98	2.89
263470	2	-20	19.4	8	-2	4.4	120	NA	61.7	0.42	14	5.8	3.49
263471	1	-20	17.1	8	-2	3.9	133	NA	62.5	0.5	13.3	8.02	4.04
263472	2	-20	9.7	10	-2	3.4	1790	NA	55.5	0.78	15.4	5.97	2.55
263473	-1	-20	11.8	10	-2	4.1	3050	NA	51.9	0.66	18	5.15	2.72

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WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
263474	1	-20	14	5	-2	3	149	NA	65.5	0.48	10.9	5.89	2.31
263475	2	-20	17.3	5	-2	3.5	290	NA	64	0.49	11.8	7.71	2.94
263476	1	-20	17.8	4	3	3.8	140	NA	65.1	0.51	12.4	7.85	2.96
263477	1	-20	14	5	-2	2.9	177	NA	68.7	0.35	9.34	5.88	2.28
263478	2	-20	22.5	8	-2	3.6	243	NA	67	0.53	13.2	5.26	2.07
263479	1	-20	19.3	6	-2	3.5	224	NA	65.6	0.49	12	5.5	2.26
263481	2	-20	17.7	7	-2	3	223	NA	67.7	0.48	11.6	4.66	1.9
263482	2	-20	21.6	8	-2	3.8	177	NA	68.1	0.47	12.5	3.91	1.55
263483	2	-20	21.3	8	-2	3.7	832	NA	62.5	0.45	11.8	3.86	1.63
263484	-1	-20	18.3	7	-2	3.5	434	NA	63.8	0.56	15.1	4.04	1.47
263485	1	-20	22.2	10	-2	3.8	500	NA	62.7	0.55	14.7	4.54	1.88
263486	3	-20	29.6	10	-2	3.6	186	NA	68.4	0.49	12.7	4.51	2.06
263487	1	-20	30.6	10	-2	3.4	386	NA	69.1	0.49	12.9	4.39	1.95
263488	2	-20	34.2	9	-2	3.7	201	NA	69.2	0.41	12.8	3.53	2.06
263489	2	-20	34.9	10	-2	3.3	109	NA	71.2	0.39	13.2	2.98	1.64
263490	3	-20	33	10	-2	3.7	332	NA	69.3	0.33	12.2	2.72	1.94
263491	3	-20	34.5	9	-2	3.4	189	NA	70.3	0.32	12.6	2.63	1.55
263492	1	-20	38.2	13	-2	3.6	1070	NA	72.1	0.34	13.6	2.35	1.21
263493	3	-20	37.2	9	-2	3.3	910	NA	71.9	0.32	12.9	2.53	1.24
263494	2	-20	34.2	9	-2	3.2	3230	NA	72.3	0.31	12.1	2.22	1.22
263495	1	-20	33.7	11	-2	3.2	3650	NA	70.7	0.32	12.5	2.29	1.7
263496	2	-20	30.9	9	-2	3.3	3950	NA	70.3	0.29	10.9	2.91	1.88
263497	2	-20	23	7	-2	4.7	5170	NA	67.5	0.33	12.8	3.49	1.82
263498	1	-20	25.7	8	-2	4.5	1470	NA	68.5	0.39	13.2	3.91	1.72
263499	-1	-20	19.6	9	-2	3.7	1110	NA	65.7	0.55	12.7	4.05	1.72
263501	1	-20	22.3	9	-2	3.6	991	NA	62.8	0.59	15	4.26	1.9
263502	2	-20	28.3	9	-2	3.1	864	NA	67.4	0.44	12.1	4.05	1.73
263503	1	-20	29.2	9	-2	3.9	1210	NA	66.9	0.47	12.3	4.07	2.02
263504	2	-20	28.5	9	-2	3.3	1180	NA	68	0.47	12.4	4.22	1.74
263505	1	-20	31.8	11	-2	3.5	197	NA	69.4	0.44	12.4	4.29	1.6
263506	2	-20	35.1	12	-2	3.6	281	NA	70.1	0.4	13.3	3.09	1.93
263507	2	-20	37.9	11	-2	3.8	464	NA	66.9	0.38	13.7	3.14	1.98
263508	2	-20	35.1	10	-2	3.5	325	NA	67.5	0.4	12.6	3.3	1.71
263509	2	-20	33.8	10	-2	3.7	614	NA	67	0.44	13.4	3.99	1.97
263510	3	-20	40.6	11	-2	3.8	1220	NA	69.2	0.45	15.1	2.71	1.83

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WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TL_X	V_X	P_X
263401	0.05	1.82	4.44	0.3	0.04	0.65	4.68	100.1	141	NA	NA	NA
263402	0.05	1.73	3.95	0.95	0.04	0.52	4.62	99.8	146	NA	NA	NA
263403	0.04	1.29	2.28	2.87	0.03	0.45	3.21	100.2	127	NA	NA	NA
263404	0.04	1.08	2.24	3.57	0.04	1.05	3.32	100.1	139	NA	NA	NA
263405	0.04	1.3	2.6	2.91	0.03	0.78	3.68	100.3	141	NA	NA	NA
263406	0.17	6.47	2.92	2.2	0.07	0.96	8.75	99.1	189	NA	NA	NA
263407	0.06	1.49	1.95	4.07	0.06	1.04	3.52	100.2	192	NA	NA	NA
263408	0.06	1.69	2.07	3.42	0.06	0.6	3.96	99.7	175	NA	NA	NA
263409	0.06	2.26	1.24	4.21	0.05	0.66	3.82	100.2	161	NA	NA	NA
263410	0.09	3.16	1.9	3.38	0.06	0.65	5.89	99.6	168	NA	NA	NA
263411	0.06	2.06	1.94	3.44	0.08	0.64	4.32	99.2	210	NA	NA	NA
263412	0.05	1.8	2.13	3.45	0.08	0.87	3.96	100.5	215	NA	NA	NA
263413	0.11	6.03	2.13	3.12	0.13	2.16	7.74	97.8	265	NA	NA	NA
263414	0.12	3.21	1.99	2.72	0.09	1.33	6.57	99.6	221	NA	NA	NA
263415	0.06	2.47	2.66	2.25	0.11	1.27	4.59	98.9	229	NA	NA	NA
263416	0.05	2.2	2.96	4.15	0.14	2.7	4.49	99.1	203	NA	NA	NA
263417	0.06	0.49	3.3	3.54	0.11	2.19	5.05	98.8	225	NA	NA	NA
263418	0.05	2.52	3.99	2.32	0.11	2.26	5.99	98.7	236	NA	NA	NA
263419	0.1	3.47	4.19	2.55	0.15	2.35	5.99	98.5	222	NA	NA	NA
263421	0.13	3.12	4.95	1.2	0.14	2.57	NA	98.2	225	NA	NA	NA
263422	0.3	1.63	4.03	0.12	0.04	1.14	5.5	99.1	248	NA	NA	NA
263423	0.13	3.28	4.36	1.2	0.13	1.76	5.98	98	198	NA	NA	NA
263424	0.1	2.7	4.91	1.49	0.12	1.76	5.53	98.4	225	NA	NA	NA
263425	0.12	2.18	3.46	0.13	0.03	1.2	4.98	98.8	198	NA	NA	NA
263426	0.13	4.72	1.51	0.07	0.05	1.04	7.06	99.3	52	NA	NA	NA
263427	0.12	3.92	5.86	0.18	0.42	2.34	6.76	96.6	271	NA	NA	NA
263428	0.12	3.77	5.31	0.31	0.18	2.33	6.17	95.9	227	NA	NA	NA
263429	0.16	2.42	4.44	0.12	0.09	2.52	5.61	95.9	218	NA	NA	NA
263430	0.26	2.38	3.08	0.07	0.11	2.38	4.92	96.6	143	NA	NA	NA
263431	0.18	2.79	5.16	0.17	0.14	2.94	5.68	96.6	253	NA	NA	NA
263432	0.11	3.32	4.43	0.22	0.14	1.99	5.96	97.4	223	NA	NA	NA
263433	0.12	3.48	5.98	0.31	0.14	1.33	7.74	98.5	308	NA	NA	NA
263434	0.29	2.54	5.08	0.47	0.11	0.96	7.4	98.8	290	NA	NA	NA
263435	0.07	2.22	3.87	1.3	0.12	0.69	5.73	100	262	NA	NA	NA
263436	0.06	2.83	0.96	2.02	0.1	0.43	5.17	99.7	232	NA	NA	NA

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WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
263437	0.06	2.55	3.23	2.44	0.11	0.58	5.35	99.6	254	NA	NA	NA
263438	0.06	2.68	2.83	2.35	0.1	0.48	NA	NA	232	NA	NA	NA
263439	0.09	3.18	2.76	2.65	0.1	0.5	5.92	99.6	230	NA	NA	NA
263441	0.09	2.59	2.59	3.07	0.1	0.84	4.85	99.5	227	NA	NA	NA
263442	0.12	3.34	1.58	3.89	0.09	1.29	5	98.8	200	NA	NA	NA
263443	0.08	1.46	0.88	5.35	0.09	1.29	2.33	99.7	207	NA	NA	NA
263444	0.13	1.59	1.94	4.92	0.11	1.62	3.48	99.4	249	NA	NA	NA
263445	0.22	1.78	1.66	4.79	0.1	1.32	3.54	98.9	239	NA	NA	NA
263446	0.4	2.4	2.44	3.14	0.1	1.21	NA	98.8	223	NA	NA	NA
263447	0.5	1.54	1.52	4.48	0.1	0.87	4.32	98.8	232	NA	NA	NA
263448	0.83	0.54	1.86	3.66	0.1	0.6	5.3	100.2	207	NA	NA	NA
263449	0.3	3.55	1.54	3.51	0.09	0.92	6.01	98	209	NA	NA	NA
263450	0.24	3.12	3.13	3.27	0.11	1.18	5.89	98.9	256	NA	NA	NA
263451	0.21	2.84	2.27	4.04	0.11	0.97	5.07	99.2	242	NA	NA	NA
263452	0.13	3.32	0.94	4.71	0.08	0.64	4.67	99.6	177	NA	NA	NA
263453	0.11	1.99	1.15	5.38	0.1	0.95	3.15	99.7	228	NA	NA	NA
263454	0.17	4.09	2.64	3.37	0.1	0.59	6.95	99.1	234	NA	NA	NA
263455	0.06	1.97	1.52	4.99	0.11	0.48	2.7	100	240	NA	NA	NA
263456	0.05	1.86	0.43	5.82	0.09	0.35	1.95	99.9	218	NA	NA	NA
263457	0.05	1.68	0.3	6.23	0.11	0.2	1.89	99.7	221	NA	NA	NA
263458	0.05	1.95	0.27	5.98	0.09	0.22	2.08	100.4	198	NA	NA	NA
263459	0.04	1.94	0.26	6.19	0.09	0.23	1.93	100.2	207	NA	NA	NA
263461	0.05	1.37	0.22	6.73	0.11	0.19	1.78	100.7	222	NA	NA	NA
263462	0.04	1.26	0.28	6.33	0.1	0.2	NA	NA	243	NA	NA	NA
263463	0.06	1.56	0.39	6.04	0.1	0.18	2.05	100.7	248	NA	NA	NA
263464	0.07	2.19	2.13	4.39	0.13	0.15	3.31	99.5	279	NA	NA	NA
263465	0.05	2.76	2.96	2.28	0.1	0.4	3.59	99.8	220	NA	NA	NA
263466	0.07	2.62	4.14	2.77	0.1	0.12	NA	NA	244	NA	NA	NA
263467	0.09	4.96	5.39	2.37	0.16	NA	4.63	NA	200	NA	NA	NA
263468	0.05	1.86	4.05	0.99	0.12	NA	4.75	NA	190	NA	NA	NA
263469	0.06	2.21	3.26	0.41	0.09	NA	4.57	NA	174	NA	NA	NA
263470	0.1	3.02	3.8	0.5	0.21	NA	4.66	NA	233	NA	NA	NA
263471	0.07	1.43	3.16	0.53	0.27	NA	5.54	NA	210	NA	NA	NA
263472	0.12	5.03	4.32	1.29	0.22	NA	5.49	NA	226	NA	NA	NA
263473	0.14	4.63	5.27	1.4	0.18	NA	6.01	NA	222	NA	NA	NA

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WSP5 Drill core assays

wsp5assfinal.xls

SAMPLE	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
263474	0.09	3.8	2.86	0.71	0.13	NA	5.21	NA	160	NA	NA	NA
263475	0.09	2.34	2.87	0.78	0.18	NA	5.34	NA	171	NA	NA	NA
263476	0.06	1.3	2.94	0.85	0.18	NA	5.47	NA	177	NA	NA	NA
263477	0.09	4.27	2.18	0.64	0.42	NA	4.04	NA	129	NA	NA	NA
263478	0.04	1.31	3.72	0.93	0.17	NA	4.75	NA	216	NA	NA	NA
263479	0.08	3.11	3.23	0.9	0.09	NA	4.62	NA	208	NA	NA	NA
263481	0.07	3.57	2.94	1.07	0.09	NA	4.4	NA	173	NA	NA	NA
263482	0.05	2.54	3.26	1.6	0.08	NA	4.05	NA	191	NA	NA	NA
263483	0.1	6.75	2.6	2	0.08	NA	5.39	NA	183	NA	NA	NA
263484	0.06	2.8	3.35	3.02	0.12	NA	3.9	NA	205	NA	NA	NA
263485	0.07	3.1	3.52	3.42	0.11	NA	4.76	NA	208	NA	NA	NA
263486	0.06	1.73	3.3	1.38	0.09	NA	4.14	NA	155	NA	NA	NA
263487	0.05	1.46	3.51	1.35	0.09	NA	4.56	NA	161	NA	NA	NA
263488	0.05	1.92	3.88	0.83	0.06	NA	4.35	NA	145	NA	NA	NA
263489	0.03	1.26	4.09	0.72	0.04	NA	4.11	NA	142	NA	NA	NA
263490	0.08	2.86	3.41	1.29	0.04	NA	5.05	NA	135	NA	NA	NA
263491	0.05	2.13	3.06	1.99	0.04	NA	4.79	NA	148	NA	NA	NA
263492	0.03	1.26	2.97	2.72	0.04	NA	3.43	NA	154	NA	NA	NA
263493	0.05	1.4	2.83	2.46	0.03	NA	3.67	NA	141	NA	NA	NA
263494	0.05	1.7	2.54	2.35	0.03	NA	3.81	NA	133	NA	NA	NA
263495	0.1	2.46	3.99	0.07	0.03	NA	5.15	NA	130	NA	NA	NA
263496	0.17	2.61	3.65	-0.05	0.04	NA	5.31	NA	114	NA	NA	NA
263497	0.12	2.14	3.79	0.61	0.05	NA	5.22	NA	207	NA	NA	NA
263498	0.07	1.66	4.1	0.58	0.06	NA	4.83	NA	209	NA	NA	NA
263499	0.12	3.11	2.8	2.34	0.12	NA	5.41	NA	227	NA	NA	NA
263501	0.1	2.87	4.19	1.46	0.11	NA	5.23	NA	207	NA	NA	NA
263502	0.1	2.42	3.35	1.3	0.08	NA	5.26	NA	151	NA	NA	NA
263503	0.08	2.76	3.28	1.44	0.13	NA	5.53	NA	149	NA	NA	NA
263504	0.06	1.9	3.31	1.23	0.08	NA	5.42	NA	153	NA	NA	NA
263505	0.04	1.67	3.21	1.65	0.07	NA	4.93	NA	153	NA	NA	NA
263506	0.05	1.79	4.11	0.95	0.04	NA	4.71	NA	143	NA	NA	NA
263507	0.05	2.18	3.69	1.68	0.04	NA	5.31	NA	144	NA	NA	NA
263508	0.06	3.3	2.48	2.88	0.05	NA	5.23	NA	148	NA	NA	NA
263509	0.05	2	4.24	0.77	0.06	NA	4.85	NA	151	NA	NA	NA
263510	0.03	0.99	5.25	0.18	0.04	NA	4.23	NA	160	NA	NA	NA

WSP5 Drill core assays

wsp5assfinal.xls

	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N
Units	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection	4	0.01	5	0.01	4	0.01	2	5	1	1	0.008	5	100
Method	GA101	GA104	GA101	GA104	GA101	GA104	GA101	GN801	GA101	GN801	GG309	GN801	GN801
Laboratory	Analabs	Becquerel	Analabs	Becquerel	Analabs	Becquerel	Becquerel						

	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N	FE_N	HF_N	IR_N	K_N	LA_N	LU_N
Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Detection	2	1	2	1	5	1	0.5	0.05	0.5	20	0.2	0.5	0.2
Method	GN801												
Laboratory	Becquerel												

	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N	TA_N	TE_N	TH_N	U_N	W_N	YB_N
Units	ppm	%	ppm										
Detection	5	0.01	20	0.2	0.1	5	0.2	1	5	0.5	2	2	0.2
Method	GN801												
Laboratory	Becquerel												

	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO	MnO	CaO	K2O	Na2O	P2O5	SO3
Units	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%
Detection	100	500	0.05	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01
Method	GN801	GN801	X408										
Laboratory	Becquerel	Becquerel	Analabs										

	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
Units	%	%	ppm	ppm	ppm	ppm
Detection	0.01	0.01	5	50	5	30
Method	X408	X408	GX401	GX401	GX401	X401
Laboratory	Analabs	Analabs	Analabs	Analabs	Analabs	Analabs

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APPENDIX 4

**WSP6
Drill Log and Assays**

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	WSP6	DRILLED BY	Fred Ortner
PROJECT	White Spur	NORTHING	5359451
PROSPECT		EASTING	377456
DESIGNED BY	M Vicary	RL	527.0
LOGGED BY	M Vicary	INCLINATION	-65
COMMENCED	06-06-1997	AZIMUTH	090
FINISHED	21-07-1997	EOH	451.6

PURPOSE

To test the White Spur Formation - Central Volcanic Sequence contact about 600m south of Pasmenco's drill hole YWS1.

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-65.0	090	150	-60	103	297	-56.9	110
30	-64.7	098	180	-59.2	106	327	-56.8	110
60	-63.5	100	210	-58.2	109	357	-56.5	111
90	-62.0	100	240	-57.7	109	390	-56.0	111
124	-61.0	104	270	-57.0	113	424	-54.7	113

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	0 - 91.6	Hole cased with PVC
NQ	91.6 - EOH	DHEM Survey performed

SUMMARY

Summary Log:-	
0 - 62	Massflow with sulphide clasts
62 - 123	Volcaniclastic sandstone
123 - 251	Interbedded massflow and black siltstone
251 - 278	Interbedded ashy siltstones and sandstones
278 - 364	Black siltstone
364 - 397.7	Fine grained volcaniclastic sandstone
379.7 - 383.8	Peperitic rhyolite and ashy siltstone
383.8 - 451.6	Feldspar phyric pumiceous mass flows (CVC)

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 1 OF 3

PROJECT : EL5196 WHITE SPUR
 PROSPECT :
 DATE :
 LOGGED BY :

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 2 OF 3

PROJECT : EL5196 WHITE SPUR
 PROSPECT :
 DATE :
 LOGGED BY :

457196

SCALE 1:1000

HOLE DEPTH M	SAMPLE NO PREP.	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							Reference	ROCK	ALTERATION
0-62.1						Polymict volcanoclastic massflow breccia. Sulfide clasts present	Cymfs	VRLC	
62.1-122.9						Massive f-m grained feld-qtz phytic rhyolite volcanoclastic sandstone.	Cym	VRCM	
122.9-251.3						Interbedded graded massflow breccia, black siltstone and ashy sediments	VRLC	VRLC	Q-B
REMARKS									

HOLE DEPTH M	SAMPLE NO PREP.	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							Reference	ROCK	ALTERATION
251.3-264.0						Predominantly black siltstone	Cymfs	SILT	VECL
264.0-277.4						Gray ashy siltstone and f-m gr volcanoclastic sandstone	Cym	SILT	VECL
277.4-383.4						Black siltstone	Cym	SILT	VECL
383.4-387.8						Volcanoclastic sandstone	Cym	SILT	VECL
387.8-389.0						Black siltstone	Cym	SILT	VECL
389.0-379.7						Volcanoclastic sandstone	Cym	SILT	VECL
379.7-383.8						Ashy sediments and Peperite rhyolite breccia	Cym	SILT	VECL
REMARKS									

- Bedding
- ┌ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : White Spur BL 5196
 PROSPECT : WHITE SPUR
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE NO PREP	ASSAY RESULTS	STRUCT.	GRAPHIC LOG										ALTERATION	GEOLOGY NOTES	SUMMARY			
			W	A	S	IL	SL	PT	BL	SER	PT	CLM			FORMATION	ROCK	ALTERATION	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
REMARKS																		

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SCALE 1:100

- Bedding
- ┌ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE No PREP	ASSAY RESULTS	STRUCT.	GRAPHIC LOG										ALTERATION	GEOLOGY NOTES	SUMMARY			
			W	A	S	IL	SL	PT	BL	SER	PT	CLM			FORMATION	ROCK	ALTERATION	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
30																		
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
40																		
REMARKS																		

↑ SOFT SURFACE

CLINITE
VOLC
LIPONITE WEATHERING COMMON

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG				ALTERATION				GEOLOGY NOTES	SUMMARY					
			1	2	3	4	BL	SER	PT	CLM		ROCK	ALTERATION				
0																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
50																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
REMARKS																	

427129

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG				ALTERATION				GEOLOGY NOTES	SUMMARY					
			1	2	3	4	BL	SER	PT	CLM		ROCK	ALTERATION				
0																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
70																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
REMARKS																	

62.1-122.9
 MASSIVE F.M GRAINED
 FELDSPAR-QUARTZ PHIBOL
 ANHOLITE VOLCANICLASTIC
 SANDSTONE
 - DIFFUSE WEEDING IN PLACE
 - SLIGHTLY REVERSE GRADED
 AT TOP

CLM
VRLM

CLM
VRLC

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

SHEET 7 OF 23

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							REMARKS	ROCK	ALTERATION
1									
2									
3									
4									
5									
6									
7									
8									
9									
100									
1									
2									
3									
4									
5									
6									
7									
8									
9									
100									
1									
2									
3									
4									
5									
6									
7									
8									
9									
100									

REMARKS

427131

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

SHEET 8 OF 23

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							REMARKS	ROCK	ALTERATION
1									
2									
3									
4									
5									
6									
7									
8									
9									
100									
1									
2									
3									
4									
5									
6									
7									
8									
9									
100									

REMARKS

- Bedding
- └ Cleavage
- ▲ Foliation
- Fault, Shear
- ⊞ Breccia
- Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
1								
2								
3								
4								
5					174.2 - 177.0 18 FINE GRAINED (BLACK-GREY) ASHY VIC EST + CLT			
6								
7					177.0 - 179.0 CREAM-GREY FINE GRAINED ASHY VIC EST			
8								
9					179.0 - 180.5 CREAM-GREY ASHY SILTSTONE			
REMARKS								

422132

- Bedding
- └ Cleavage
- ▲ Foliation
- Fault, Shear
- ⊞ Breccia
- Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0								
1								
2								
3								
4								
5								
6								
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8								
9								
10								
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4								
5								

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

SHEET 11 OF 23

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
1									
2									
3						202-4 - 207-2 BLACK SILTSTONE			
4									
5									
6									
7									
8						207-2 - 209-1 GRADED MASS FLOW UNIT F GR ASHY SET AT TOP WITH C SAND - GRANULE GRADE LITTLE RICH BASE			
9						209-1 - 211-1 AS ABOVE			
20									
1									
2						211-1 - 215-6 18 BLACK SILTSTONE AND CREAM - GRAY ASHY SILTSTONE			
3									
4									
5									
6									
7									
8						216-8 - 223-0 GRADED MASS FLOW UNIT			
9									
20									
REMARKS									

427138

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

SHEET 12 OF 23

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
1									
2									
3									
4						220-0 - 224-1 18 BLACK SILTSTONE + CREAM ASHY SILTSTONE			
5						224-1 - 224-6 F GR VC EST			
6						224-6 - 225-B GRADED MASS FLOW TOP 18 F GR VC EST + LAMINATED ASHY SILTSTONE			
7						225-B - 227-6 MASS FLOW UNIT HIGH 7. BLACK SILT IN MATRIX			
8						227-6 - 228-0 BLACK SILTSTONE			
9						228-0 - 228-6 AA 225 B - 227-6			
20						228-6 - 231-9 BLACK SILTSTONE			
1									
2						231-8 - 231-9 POOR FAULT ZONE			
3						231-9 - 233-3 MASS FLOW UNIT HIGH 7. OF BLACK SILT IN MATRIX			
4						233-3 - 235-7 BLACK SILTSTONE			
5									
6						235-7 - 236-B MASS FLOW UNIT			
7									
8						236-B - 239-0 GRADED MASS FLOW UNIT WITH SANDY TOP			
9						239-0 - 239-5 BLACK SILTSTONE			
20									
REMARKS									

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

SHEET 13 OF 23

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						Formation	ROCK ALTERATION	
0-1						Cymf	TRILL-VICIA	
2					241.6-251.3 GRADED 'MIXITE' UNIT			
3								
4								
5								
6								
7								
8						Cymf	Camf	
9								
200								
1								
2					251.3-246.0 PREDOMINANTLY BLACK SILTSTONE WITH SOME INTERBEDDED FELDSPAR Bearing SILTS + PHYLITES.			
3								
4								
5								
6								
7								
8								
9								
260	REMARKS							

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

SHEET 14 OF 23

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						Formation	ROCK ALTERATION	
0-1								
2								
3								
4								
5					246.0-277.4 PREDOMINANTLY ASHY SILTSTONES + F-M GR SILT STS AND THINER BLACK SILTSTONE + COARSE ULC STS			
6								
7					POSSIBLE CORRELATE OF 4W5-1 144-B-158.0			
8								
9								
270								
1								
2								
3								
4								
5								
6								
7								
8								
9					277.4 - Thinly bedded BLACK SILTSTONE WITH 2mm wide lamellae of WHITE VORM/CARB? 3%. DISSEMINATED PYRITE			
300	REMARKS							

4271334

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

SHEET 15 OF 23

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH METER	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION	GEOLOGY NOTES	SUMMARY					
				BL	CL	FL	FR	SL	SR			INT	ROCK	ALTERATION			
0																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
20																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
9																	
9																	
70																	
REMARKS																	

427133

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

SHEET 16 OF 23

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH METER	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION	GEOLOGY NOTES	SUMMARY					
				BL	CL	FL	FR	SL	SR			INT	ROCK	ALTERATION			
0																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
20																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
9																	
70																	
REMARKS																	

302.2 - 303.0 6cm m or goldstone
 rich in silt. STRONGLY SURROUNDED WITH
 SOME QUARTZ VEINS.

CLAS
SILT

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

SHEET 17 OF 23

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ▒ Broken core
- ▒ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	
DATE :	
LOGGED BY :	

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							PREVALENCE	ROCK	ALTERATION
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
REMARKS									

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

SHEET 18 OF 23

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ▒ Broken core
- ▒ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	
DATE :	
LOGGED BY :	

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							PREVALENCE	ROCK	ALTERATION
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
REMARKS									

427136

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

SHEET 19 OF 23

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH METER	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
		Cu	Pb	Zn					FORMULA	ROCK	ALTERATION	
0												
1	31	77	46	72								
2	118	46	81									
3	96	23	76									
4	77	42	152									
5	50	32	65				364.0-365.7 118 silt + fgr vlc sst					
6	27	36	61									
7	16	24	103				365.7-379.7 well sorted m. gr. etc sst & diffuse banding					
8	18	20	85									
9	10	16	56									
370	41	15	41									
1	2	10	46									
2	3	7	68									
3	4	7	53									
4	5	8	61									
5	6	8	59									
6	7	8	63									
7	8	9	46									
8	9	8	91									
9	50	16	111									
380	1	8	50									
REMARKS												
262540 = STD												

42715M

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

SHEET 20 OF 23

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH METER	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
		Cu	Pb	Zn					FORMULA	ROCK	ALTERATION	
0												
1	2	17	16	60								
2	3	16	18	69								
3	4	17	6	31								
4	5	15	15	53								
5	6	25	18	97								
6	7	12	8	49								
7	8	9	17	37								
8	9	9	9	141								
9	61	4	28	61								
390	2	6	12	42								
1	3	5	8	61								
2	4	4	3	50								
3	5	5	3	35								
4	6	9	3	40								
5	7	7	105	248								
6	8	6	149	463								
7	9	8	104	340								
8	70	5	3	144								
9	1	7	102	256								
400	2	6	28	467								
410	3	6	106	203								
REMARKS												
263560 = STD												

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ▒ Broken core
- ▒ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 21 OF 23

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
		Cu	Pb	Zn					Fe	ROCK	ALTERATION
400	4	8	258	494							
1	5	9	273	477							
2	6	7	219	659							
3	7	5	216	416							
4	8	9	612	1061							
5	9	9	106	219							
6	81	9	63	205						OSA6	
7	2	8	94	281							
8	3	6	89	138							
9	4	6	165	353							
410	5	6	63	125							
1	6	6	45	102							
2	END							411.5-413.0 Patchy pink albite.			
3											
4											
5											
6											
7											
8											
9											
420	REMARKS										
(263580 = STD)											

427138

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ▒ Broken core
- ▒ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 22 OF 23

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
		Cu	Pb	Zn					Fe	ROCK	ALTERATION
420	1										
2	2										
3	3										
4	4										
5	5										
6	6										
7	7										
8	8										
9	9										
430	1										
2	2										
3	3										
4	4										
5	5										
6	6										
7	7										
8	8										
9	9										
440	REMARKS										

419.1-427.0
 Cream coloured alb/cor altered
 VDFM E abundant chlorite micaceous
 Unit impure - jigsaw fit brecciation
 Contains some shaly partings
 planes - before fault zone.

431.8-442.6
 Patchy chl-pn/albite
 alteration

SOA 8
 SOA 7
 SOA 6

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP6

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ┆ Narrow vein
- * Visible gold

SHEET 23 OF 23

PROJECT :
PROSPECT :
DATE :
LOGGED BY :

HOLE DEPTH	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
							PREP	REF	ALTERNATION	
0				<div style="display: flex; justify-content: space-between; font-size: 8px;"> BI BR PT CH CL </div>						
1				~						
2			5g 45	~						AD-6
3				~						SA06
4				~						
5				~						
6				~						
7				~						
8				~						
9				~						
450				~						
1				~						
2				~						
3				~						
4				~						
5				~						
6				~						
7				~						
8				~						
9				~						
460				~						
REMARKS										

427130

Cen
IDFM

EoH-451.6

WSP6 Drill hole assays

WSP6ASSYrpt.xls

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
263511	WSP6	341	342	5359406.1	377619.8	231.6	60	NA	44	NA	61	NA	-1
263512	WSP6	342	343	5359405.9	377620.3	230.8	74	NA	29	NA	48	NA	-1
263513	WSP6	343	344	5359405.7	377620.8	229.9	38	NA	16	NA	45	NA	-1
263514	WSP6	344	345	5359405.5	377621.3	229.1	28	NA	30	NA	44	NA	-1
263515	WSP6	345	346	5359405.3	377621.8	228.3	20	NA	10	NA	62	NA	-1
263516	WSP6	346	347	5359405.1	377622.4	227.4	13	NA	-3	NA	50	NA	-1
263517	WSP6	347	347.8	5359404.9	377622.8	226.7	26	NA	20	NA	59	NA	-1
263518	WSP6	347.8	349	5359404.7	377623.3	225.9	88	NA	56	NA	91	NA	-1
263519	WSP6	349	350	5359404.5	377623.9	224.9	77	NA	54	NA	153	NA	-1
263521	WSP6	350	351	5359404.3	377624.4	224.1	74	NA	102	NA	381	NA	-1
263522	WSP6	351	352	5359404.1	377624.9	223.3	72	NA	159	NA	588	NA	-1
263523	WSP6	352	353	5359403.9	377625.5	222.4	44	NA	416	NA	906	NA	-1
263524	WSP6	353	354	5359403.7	377626.0	221.6	68	NA	425	NA	1502	NA	-1
263525	WSP6	354	355	5359403.6	377626.5	220.8	73	NA	57	NA	356	NA	-1
263526	WSP6	355	356	5359403.4	377627.0	219.9	78	NA	49	NA	272	NA	-1
263527	WSP6	356	357	5359403.2	377627.5	219.1	71	NA	42	NA	106	NA	-1
263528	WSP6	357	358	5359403.0	377628.0	218.3	70	NA	88	NA	139	NA	-1
263529	WSP6	358	359	5359402.8	377628.5	217.4	72	NA	46	NA	99	NA	-1
263530	WSP6	359	360	5359402.6	377629.1	216.6	97	NA	41	NA	93	NA	-1
263531	WSP6	360	361	5359402.4	377629.6	215.8	77	NA	46	NA	72	NA	-1
263532	WSP6	361	362	5359402.2	377630.1	214.9	118	NA	46	NA	81	NA	-1
263533	WSP6	362	363	5359402.0	377630.6	214.1	94	NA	23	NA	76	NA	-1
263534	WSP6	363	364	5359401.8	377631.1	213.3	77	NA	42	NA	152	NA	-1
263535	WSP6	364	365	5359401.6	377631.6	212.4	50	NA	32	NA	65	NA	-1
263536	WSP6	365	366	5359401.4	377632.2	211.6	27	NA	36	NA	61	NA	-1
263537	WSP6	366	367	5359401.2	377632.7	210.8	16	NA	24	NA	103	NA	-1
263538	WSP6	367	368	5359401.0	377633.2	209.9	18	NA	20	NA	85	NA	-1
263539	WSP6	368	369	5359400.8	377633.7	209.1	10	NA	16	NA	56	NA	-1
263541	WSP6	369	370	5359400.6	377634.2	208.3	15	NA	5	NA	41	NA	-1
263542	WSP6	370	371	5359400.4	377634.7	207.4	10	NA	-3	NA	46	NA	-1
263543	WSP6	371	372	5359400.2	377635.3	206.6	7	NA	-3	NA	48	NA	-1
263544	WSP6	372	373	5359400.0	377635.8	205.8	7	NA	-3	NA	53	NA	-1
263545	WSP6	373	374	5359399.8	377636.3	204.9	8	NA	-3	NA	61	NA	-1
263546	WSP6	374	375	5359399.6	377636.8	204.1	8	NA	4	NA	59	NA	-1
263547	WSP6	375	376	5359399.4	377637.3	203.3	8	NA	5	NA	63	NA	-1

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WSP6 Drill hole assays

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SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
263548	WSP6	376	377	5359399.2	377637.9	202.4	9	NA	11	NA	46	NA	-1
263549	WSP6	377	378	5359399.0	377638.4	201.6	8	NA	5	NA	91	NA	-1
263550	WSP6	378	379	5359398.8	377638.9	200.8	16	NA	18	NA	111	NA	-1
263551	WSP6	379	379.8	5359398.6	377639.4	200.0	8	NA	10	NA	50	NA	-1
263552	WSP6	379.8	380.8	5359398.4	377639.8	199.3	17	NA	16	NA	60	NA	-1
263553	WSP6	380.8	381.4	5359398.3	377640.3	198.6	16	NA	18	NA	69	NA	-1
263554	WSP6	381.4	382.1	5359398.1	377640.6	198.1	17	NA	6	NA	31	NA	-1
263555	WSP6	382.1	383	5359398.0	377641.0	197.4	15	NA	15	NA	53	NA	-1
263556	WSP6	383	383.8	5359397.8	377641.4	196.7	25	NA	18	NA	97	NA	-1
263557	WSP6	383.8	385	5359397.6	377642.0	195.9	12	NA	8	NA	49	NA	-1
263558	WSP6	385	386	5359397.4	377642.5	195.0	9	NA	17	NA	37	NA	-1
263559	WSP6	386	387	5359397.2	377643.1	194.1	9	NA	9	NA	141	NA	-1
263561	WSP6	387	388	5359397.0	377643.6	193.3	4	NA	28	NA	61	NA	-1
263562	WSP6	388	389	5359396.8	377644.1	192.5	6	NA	12	NA	42	NA	-1
263563	WSP6	389	390	5359396.6	377644.6	191.7	5	NA	8	NA	61	NA	-1
263564	WSP6	390	391	5359396.4	377645.2	190.8	4	NA	-3	NA	50	NA	-1
263565	WSP6	391	392	5359396.2	377645.7	190.0	5	NA	-3	NA	35	NA	-1
263566	WSP6	392	393	5359396.0	377646.2	189.2	9	NA	-3	NA	40	NA	-1
263567	WSP6	393	394	5359395.8	377646.7	188.3	7	NA	105	NA	248	NA	-1
263568	WSP6	394	395	5359395.6	377647.2	187.5	6	NA	149	NA	443	NA	-1
263569	WSP6	395	396	5359395.4	377647.8	186.7	8	NA	104	NA	390	NA	-1
263570	WSP6	396	397	5359395.2	377648.3	185.9	5	NA	-3	NA	144	NA	-1
263571	WSP6	397	398	5359395.0	377648.8	185.0	7	NA	102	NA	256	NA	-1
263572	WSP6	398	399	5359394.8	377649.3	184.2	6	NA	28	NA	467	NA	-1
263573	WSP6	399	400	5359394.6	377649.9	183.4	6	NA	106	NA	203	NA	-1
263574	WSP6	400	401	5359394.3	377650.4	182.6	8	NA	258	NA	494	NA	-1
263575	WSP6	401	402	5359394.1	377650.9	181.7	9	NA	273	NA	477	NA	-1
263576	WSP6	402	403	5359393.9	377651.4	180.9	7	NA	219	NA	659	NA	-1
263577	WSP6	403	404	5359393.7	377652.0	180.1	5	NA	216	NA	416	NA	-1
263578	WSP6	404	405	5359393.5	377652.5	179.3	9	NA	612	NA	1041	NA	-1
263579	WSP6	405	406	5359393.3	377653.0	178.4	9	NA	106	NA	219	NA	-1
263581	WSP6	406	407	5359393.1	377653.5	177.6	9	NA	63	NA	205	NA	-1
263582	WSP6	407	408	5359392.9	377654.1	176.8	8	NA	94	NA	281	NA	-1
263583	WSP6	408	409	5359392.7	377654.6	176.0	6	NA	89	NA	138	NA	-1
263584	WSP6	409	410	5359392.4	377655.1	175.1	6	NA	165	NA	353	NA	-1

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WSP6 Drill hole assays

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SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
263585	WSP6	410	411	5359392.2	377655.7	174.3	6	NA	63	NA	125	NA	-1
263586	WSP6	411	412	5359392.0	377656.2	173.5	6	NA	45	NA	102	NA	-1
SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
						Units	ppm	%	ppm	%	ppm	%	ppm
						Detection	4	0.01	5	0.01	4	0.01	2
						Method	GA101	GA104	GA101	GA104	GA101	GA104	GA101
						Laboratory	Analabs						

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SAMPLE	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
263511	-5	NA	44	NA	-5	788	-2	1.4	125	15	81	5	1.5
263512	-5	NA	36	NA	30	764	-2	4.1	111	15	61	4	1.9
263513	-5	NA	35	NA	-5	846	-2	2.2	132	18	61	6	1.5
263514	-5	NA	40	NA	20	824	-2	1.1	124	11	52	6	1.3
263515	-5	NA	41	NA	-5	683	-2	3.3	122	12	74	5	1.8
263516	-5	NA	24	NA	-5	758	-2	1.6	136	11	71	5	1.2
263517	-5	NA	32	NA	-5	985	-2	3.6	127	15	111	8	1.8
263518	-5	NA	33	NA	-5	551	-2	2.1	70	15	93	5	1.3
263519	-5	NA	46	NA	-5	686	-2	1.8	76	16	102	6	1.4
263521	-5	NA	30	NA	-5	683	-2	1.9	85	16	107	8	1.3
263522	-5	NA	35	NA	10	547	-2	1.4	85	15	107	10	1.2
263523	-5	NA	42	NA	-5	485	-2	5.1	75	13	88	8	1.4
263524	-5	NA	38	NA	-5	693	-2	2.2	91	17	97	11	1.1
263525	-5	NA	37	NA	10	621	-2	1.8	85	15	98	6	1.3
263526	-5	NA	36	NA	10	586	-2	2.2	83	16	102	7	1
263527	-5	NA	33	NA	-5	577	-2	2.1	94	15	92	6	1.3
263528	-5	NA	31	NA	-5	636	-2	1.5	95	16	110	7	1.7
263529	-5	NA	35	NA	-5	508	-2	1.3	73	17	115	6	1.1
263530	-5	NA	35	NA	-5	334	-2	3.2	77	17	127	5	1.7
263531	-5	NA	33	NA	10	461	-2	3.2	84	16	117	5	1.8
263532	-5	NA	34	NA	-5	322	-2	2.2	68	16	117	3	1.1
263533	-5	NA	29	NA	-5	473	-2	2.1	88	15	111	4	1.6
263534	-5	NA	66	NA	-5	510	-2	3.2	72	16	99	4	1
263535	-5	NA	65	NA	10	883	-2	1.4	110	11	70	5	1.8
263536	-5	NA	71	NA	20	879	-2	1.2	106	11	47	6	1.8
263537	-5	NA	37	NA	-5	1200	-2	2.5	102	7	21	8	2.3
263538	-5	NA	37	NA	-5	1040	-2	2.9	89	7	20	5	2.2
263539	-5	NA	54	NA	-5	1020	-2	3.2	108	13	16	5	2.2
263541	-5	NA	39	NA	-5	1050	-2	5.4	81	10	22	4	2.6
263542	-5	NA	31	NA	-5	1290	-2	6.4	92	8	7	6	2.4
263543	-5	NA	25	NA	-5	937	-2	3.8	88	7	-5	5	2.2
263544	-5	NA	28	NA	-5	1150	-2	2.7	106	5	31	4	2.6
263545	-5	NA	24	NA	-5	1200	-2	2.7	112	5	15	6	2.3
263546	-5	NA	23	NA	-5	1310	-2	2.3	118	6	9	5	2.5
263547	-5	NA	26	NA	-5	1110	-2	2.9	108	5	40	4	2.2

SAMPLE	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
263548	-5	NA	45	NA	-5	1210	-2	1.8	125	7	11	6	2.4
263549	-5	NA	40	NA	-5	1470	-2	-1	146	8	6	8	2.5
263550	-5	NA	97	NA	-5	1460	-2	2.5	120	11	43	5	2.3
263551	-5	NA	35	NA	-5	2120	-2	-1	144	4	10	8	1.6
263552	-5	NA	32	NA	-5	1870	-2	1.1	138	6	-5	6	1.7
263553	-5	NA	22	NA	10	1460	-2	-1	92	6	86	4	1.2
263554	-5	NA	25	NA	-5	1380	-2	-1	97	6	25	4	1.5
263555	-5	NA	116	NA	-5	1230	-2	1.7	101	4	15	3	1.7
263556	-5	NA	43	NA	-5	1500	-2	1.7	105	7	85	5	2.1
263557	-5	NA	6	NA	-5	2190	-2	1.4	136	3	14	5	1.8
263558	-5	NA	8	NA	-5	1290	-2	1.3	121	5	7	4	1.6
263559	-5	NA	27	NA	-5	1520	-2	2	126	5	50	6	1.9
263561	-5	NA	4	NA	-5	1350	-2	3	97	2	12	6	1.6
263562	-5	NA	5	NA	-5	1210	-2	2	133	3	6	7	2.2
263563	-5	NA	5	NA	-5	1070	-2	2.3	123	5	66	5	1.9
263564	-5	NA	4	NA	-5	889	-2	2.4	108	2	17	3	1.8
263565	-5	NA	8	NA	-5	1100	-2	2.4	118	3	6	5	2.2
263566	-5	NA	5	NA	-5	1070	-2	1.8	125	3	87	5	2
263567	-5	NA	14	NA	-5	884	-2	1.2	145	3	21	5	2.3
263568	-5	NA	34	NA	-5	468	-2	1.7	116	3	16	3	1.7
263569	-5	NA	51	NA	-5	638	-2	2.3	119	4	112	5	1.8
263570	-5	NA	36	NA	-5	759	-2	2.9	118	3	19	7	1.9
263571	-5	NA	32	NA	-5	575	-2	2.1	119	4	16	4	1.6
263572	-5	NA	87	NA	-5	392	-2	2.2	108	4	147	5	1.5
263573	-5	NA	50	NA	-5	259	-2	1.8	111	3	30	4	1.8
263574	-5	NA	9	NA	-5	675	-2	1.7	130	3	13	6	2.1
263575	-5	NA	11	NA	-5	528	-2	1.4	125	4	141	4	2.1
263576	-5	NA	9	NA	-5	459	-2	1.5	111	3	24	5	1.3
263577	-5	NA	7	NA	-5	332	-2	1.3	91	4	12	3	1.4
263578	-5	NA	27	NA	-5	489	-2	1.9	112	3	184	2	1.7
263579	-5	NA	11	NA	-5	782	-2	2	112	4	21	5	2
263581	-5	NA	8	NA	-5	867	-2	2.9	119	4	6	5	2.1
263582	-5	NA	9	NA	-5	591	-2	3.4	115	5	63	6	2.1
263583	-5	NA	18	NA	-5	664	-2	3.3	115	4	13	5	2
263584	-5	NA	8	NA	-5	1320	-2	2	115	4	18	5	1.8

WSP6 Drill hole assays

WSP6ASSYrpt.xls

SAMPLE	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
263585	-5	NA	9	NA	-5	1460	2	1.4	113	4	109	4	1.7
263586	-5	NA	7	NA	-5	1590	-2	2	114	4	18	5	1.8
	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection	5	1	1	0.008	5	100	2	1	2	1	5	1	0.5
Method	GN801	GA101	GN801	GG309	GN801								
Laboratory	Becquerel	Analabs	Becquerel	Analabs	Becquerel								

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SAMPLE	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
263511	3.21	4.8	-20	2.4	56	0.6	-5	1.39	130	3.2	10.6	-5	9.3
263512	2.89	4.5	-20	1.9	49.8	0.5	-5	1.07	120	2.8	8	-5	9.5
263513	2.88	5.8	-20	2.4	58.5	0.5	-5	0.88	130	2.4	8	-5	9.9
263514	2.97	5.8	-20	2	55.3	0.5	-5	2.03	125	3.2	10.7	-5	9.2
263515	2.68	8.3	-20	2.1	51.2	0.6	-5	2.57	110	1.5	14.9	-5	10.5
263516	2.73	8.7	-20	2.6	60	0.5	-5	1.01	135	0.9	10.7	-5	9.8
263517	2.97	8.8	-20	3.3	54.9	0.5	-5	1.16	175	1.6	17.8	-5	11
263518	4.29	3.9	-20	1.9	30.6	0.4	-5	0.5	100	3.4	14.9	-5	6.2
263519	3.92	4.3	-20	2.6	34.9	0.5	-5	0.45	125	4.2	16.2	-5	6.9
263521	4.04	4.7	-20	2.9	37.4	0.5	-5	0.5	135	4.3	17	-5	7.5
263522	4.02	4.9	-20	3	38.4	0.5	-5	0.16	135	5	16.4	-5	7.3
263523	4.27	4	-20	2.6	35	0.4	-5	0.08	125	4.4	14.6	-5	6.9
263524	3.96	5	-20	2.8	39.9	0.5	-5	0.4	150	5	16.7	-5	7.9
263525	3.69	4.6	-20	2.4	37.7	0.5	-5	0.69	125	5.8	15.9	-5	7.4
263526	3.94	4.8	-20	2.3	36.2	0.5	-5	0.71	120	4.6	15.8	-5	7.2
263527	3.88	5.4	-20	2.5	41.8	0.5	-5	0.74	140	4.1	15.8	-5	7.8
263528	3.97	5.8	-20	2.4	41.9	0.5	-5	0.64	150	3.3	16.7	-5	8.1
263529	5.25	3.9	-20	2.2	32.9	0.5	-5	0.5	120	3.4	16.3	-5	6.6
263530	6.11	4.1	-20	1.5	33.4	0.6	-5	0.73	90	2.7	16.5	-5	8.1
263531	5.74	3.9	-20	1.6	36.7	0.6	-5	0.85	80	2.3	15.5	-5	8.8
263532	5.55	3.7	-20	1.3	30.7	0.4	-5	0.93	75	1.4	14.8	-5	6.4
263533	5.56	4.8	-20	1.6	39.3	0.5	-5	1.07	70	2.3	14.8	-5	7.7
263534	5.5	4	-20	1.3	32	0.4	-5	1.09	65	4.3	14.4	-5	6.5
263535	4	6.7	-20	2.4	48.2	0.5	-5	1.11	95	3.8	13.2	-5	9.4
263536	3.99	6.1	-20	2.2	47.9	0.4	-5	1.88	125	3.5	13.3	-5	9
263537	2.96	5.4	-20	2.7	46	0.5	-5	2.29	145	1.6	17.4	-5	9.4
263538	2.64	4.6	-20	1.7	38.6	0.4	-5	3.03	110	1.4	16.1	-5	7.9
263539	3.3	6.2	-20	2	47.3	0.6	-5	2.48	95	1.6	16	-5	9.6
263541	2.18	4	-20	1.2	37.7	0.5	-5	3.99	90	1.5	17.9	-5	8.2
263542	2.42	3.9	-20	2.6	40.7	0.6	-5	2.49	145	0.9	18.5	-5	8.5
263543	2.46	4.6	-20	1.5	40	0.6	-5	3.38	100	0.8	15.8	-5	8.3
263544	2.23	5.5	-20	1.8	48.5	0.5	-5	2.57	100	0.9	15.1	-5	9.5
263545	2.21	5.8	-20	2	48.9	0.6	-5	2.6	95	0.9	15.1	-5	9.5
263546	2.18	6.1	-20	2.7	52.4	0.6	-5	2.39	110	0.9	14.7	-5	10
263547	2.02	5.4	-20	1.2	48.5	0.5	-5	2.77	105	1	13.8	-5	9.2

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SAMPLE	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
263548	2.48	6.7	-20	2.9	55	0.7	-5	2	120	1.6	13	-5	10.4
263549	2.51	7.9	-20	2.7	64.5	0.7	-5	1.27	150	1.6	12.1	-5	12.1
263550	3.17	6.5	-20	2.2	53.9	0.6	-5	2.24	115	2.4	14.1	-5	10
263551	2.43	7.6	-20	2.3	63.7	0.7	-5	0.58	150	1.7	8.3	-5	11.2
263552	2.84	7.9	-20	2.7	61.6	0.7	-5	1.59	115	1	10.9	-5	10.7
263553	1.75	5.1	-20	2.2	41.7	0.6	-5	1.1	95	1.6	6.9	-5	6.9
263554	2.41	5.6	-20	1.7	43.8	0.6	-5	1.5	90	1.7	8.2	-5	7.5
263555	2.56	5.5	-20	1	44.8	0.4	-5	2.8	80	1	11.7	-5	8.5
263556	2.6	6.2	-20	1.6	46.8	0.6	-5	2.75	80	1.1	10.6	-5	8.6
263557	2.18	7.2	-20	2.2	59.6	0.6	-5	1.94	125	0.3	10.2	-5	10.7
263558	2.34	6.7	-20	1.8	53.7	0.6	-5	2.72	85	0.5	10.4	-5	9.7
263559	2.28	7.1	-20	3	56	0.7	-5	2.24	150	0.6	12.4	-5	10.5
263561	2.2	7	-20	1.6	40	0.8	-5	2.29	150	-0.2	12.8	-5	8.5
263562	2.49	7.2	-20	1.6	57.8	0.7	-5	2.37	135	0.5	11.8	-5	11.1
263563	2.36	6.7	-20	1.8	54.1	0.7	-5	2.56	135	0.4	11.6	-5	10.4
263564	2.22	6.1	-20	1.3	47.6	0.6	-5	3.04	95	-0.2	10.5	-5	9.2
263565	2.31	6.4	-20	2.3	52.9	0.6	-5	2.35	145	0.3	10.9	-5	10
263566	2.4	6.6	-20	1.9	55.4	0.7	-5	2.95	110	-0.2	11.1	-5	10.5
263567	2.39	7.1	-20	1.7	65.4	0.6	-5	3.7	110	0.5	11.6	-5	11.8
263568	2.4	6	-20	1.1	50.8	0.6	-5	4.3	35	0.5	11	-5	9.9
263569	2.18	6.1	-20	1.1	51.2	0.6	-5	3.38	65	0.9	10.5	-5	10
263570	2.04	6.4	-20	2	51.4	0.6	-5	2.78	115	0.4	11.4	-5	10
263571	2.36	6.2	-20	0.7	51.3	0.6	8	3.66	75	0.6	10.5	-5	9.9
263572	1.9	6.6	-20	1	46.1	0.6	-5	3.79	65	1	10.9	-5	9.5
263573	2.14	5.9	-20	1.3	48.6	0.6	7	4.14	40	0.7	10.2	-5	9.4
263574	2.57	7	-20	0.8	58.1	0.6	-5	3.74	75	0.8	11.6	-5	10.9
263575	2.45	6.5	-20	1.8	55.3	0.6	-5	4.09	80	0.6	11.2	-5	10.4
263576	2.04	5.6	-20	1.1	48.4	0.6	-5	3.24	105	0.6	10.3	-5	9
263577	2.51	6	-20	0.9	40.8	0.6	-5	3.69	65	0.4	9.8	-5	7.7
263578	2.67	6.5	-20	0.9	49.9	0.7	-5	4.63	60	1	10.9	-5	9.4
263579	2.48	6.5	-20	1.9	50.1	0.6	-5	3.24	120	0.8	10.7	-5	9.5
263581	2.63	6.5	-20	1.4	52.5	0.6	-5	2.61	135	0.6	11.2	-5	10
263582	2.49	6.3	-20	1.3	50.2	0.6	-5	2.49	130	0.6	11	-5	9.6
263583	2.79	6.4	-20	2.1	50.3	0.6	-5	2.19	140	1	11.2	-5	9.6
263584	2.55	6.4	-20	1.3	50.2	0.5	6	3.06	90	0.8	10.6	-5	9.6

WSP6 Drill hole assays

WSP6ASSYrpt.xls

SAMPLE	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
263585	2.48	6.4	-20	1.6	49.9	0.6	-5	2.98	105	1.1	10.9	-5	9.6
263586	2.53	6.7	-20	3.1	50.8	0.6	-5	2.38	150	0.9	10.7	-5	9.7
	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
Units	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection	0.05	0.5	20	0.2	0.5	0.2	5	0.01	20	0.2	0.1	5	0.2
Method	GN801												
Laboratory	Becquerel												

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WSP6 Drill hole assays

WSP6ASSYrpt.xls

SAMPLE	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
263511	3	-20	28.4	11	-2	3.5	-100	-500	NA	NA	NA	NA	NA
263512	2	-20	28.4	9	-2	3.5	-100	-500	NA	NA	NA	NA	NA
263513	2	-20	32.1	10	-2	3.4	-100	-500	NA	NA	NA	NA	NA
263514	-1	-20	24	10	-2	3.3	-100	-500	NA	NA	NA	NA	NA
263515	1	-20	17	9	-2	3.9	111	-500	NA	NA	NA	NA	NA
263516	2	-20	28.4	12	-2	3.7	-100	-500	NA	NA	NA	NA	NA
263517	1	-20	18.5	10	-2	3.5	-100	-500	NA	NA	NA	NA	NA
263518	1	-20	12.4	4	-2	2.7	110	-500	NA	NA	NA	NA	NA
263519	2	-20	14	6	-2	3.2	139	-500	NA	NA	NA	NA	NA
263521	1	-20	14.5	6	-2	3.3	409	-500	NA	NA	NA	NA	NA
263522	1	-20	14.8	7	-2	3.4	612	-500	NA	NA	NA	NA	NA
263523	-1	-20	12.1	6	-2	2.8	1010	-500	NA	NA	NA	NA	NA
263524	1	-20	15.5	7	-2	3.4	1400	-500	NA	NA	NA	NA	NA
263525	1	-20	14.3	7	-2	3.1	376	-500	NA	NA	NA	NA	NA
263526	-1	-20	14.4	7	-2	3.2	300	-500	NA	NA	NA	NA	NA
263527	2	-20	15.4	6	-2	3.3	126	-500	NA	NA	NA	NA	NA
263528	1	-20	15.9	6	-2	3.5	139	-500	NA	NA	NA	NA	NA
263529	2	-20	12.3	4	-2	3	112	-500	NA	NA	NA	NA	NA
263530	2	-20	12.5	4	-2	3.7	110	-500	NA	NA	NA	NA	NA
263531	1	-20	12.7	4	-2	3.8	-100	-500	62.2	0.63	11.4	8.06	2.6
263532	-1	-20	11.2	2	-2	2.9	103	-500	65.8	0.63	10.5	7.93	2.72
263533	1	-20	13.9	3	-2	3.4	-100	-500	63.9	0.65	12.2	8.03	2.82
263534	2	-20	11.1	3	-2	2.9	158	-500	63.1	0.63	10.4	7.8	2.44
263535	2	-20	16.7	10	-2	3.7	-100	-500	64.9	0.65	14.6	5.99	2.45
263536	2	-20	14.3	17	-2	3.3	-100	-500	62.8	0.64	16.7	6.02	1.92
263537	2	-20	12.6	12	-2	3.4	114	-500	57.6	0.64	19.7	4.38	1.84
263538	2	-20	9.2	9	-2	2.7	-100	-500	59.1	0.6	19.1	3.95	1.67
263539	1	-20	15.4	14	-2	3.9	-100	-500	58.3	0.6	18.1	4.75	2.23
263541	2	-20	7.9	9	-2	3.2	104	-500	52.6	0.47	20.2	3.27	1.76
263542	-1	-20	9.5	10	-2	4	-100	-500	47.5	0.47	21.2	3.54	2.2
263543	2	-20	12.5	9	-2	3.9	-100	-500	58.1	0.45	18.3	3.6	2.27
263544	2	-20	14.4	10	-2	3.6	-100	600	61.4	0.49	18.3	3.29	2.45
263545	-1	-20	15.3	10	-2	3.5	-100	-500	61.9	0.5	18.2	3.17	2.29
263546	2	-20	16.2	9	-2	3.9	-100	-500	62.8	0.51	18.2	3.23	2.54
263547	1	-20	15	8	-2	3.5	115	-500	62.9	0.47	17.5	2.9	2.18

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WSP6 Drill hole assays

WSP6ASSYrpt.xls

SAMPLE	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
263548	2	-20	18.8	10	-2	4.2	-100	-500	64.5	0.54	17.2	3.58	2.51
263549	2	-20	23.5	13	-2	4.7	105	-500	64.8	0.56	17	3.69	2.85
263550	1	-20	18.3	15	-2	4	130	-500	61	0.56	17.4	4.48	2.46
263551	2	-20	25.4	12	-2	4.7	-100	-500	69	0.4	15.2	3.39	2.75
263552	2	-20	25.6	12	-2	4.5	-100	-500	63.7	0.56	17.5	4.14	3.29
263553	1	-20	17.2	10	-2	4	-100	-500	76.9	0.38	11.2	2.49	1.43
263554	-1	-20	18	10	-2	3.9	-100	-500	75.6	0.39	12	3.33	1.93
263555	2	-20	14.9	8	-2	2.9	-100	-500	67.4	0.47	14.8	3.72	1.89
263556	3	-20	18.4	8	-2	4	124	-500	69.1	0.5	13.9	3.79	1.9
263557	2	-20	22.1	7	-2	4.2	-100	-500	68.5	0.51	15.4	3.11	1.9
263558	2	-20	19.9	6	-2	4	-100	-500	70	0.5	14.5	3.49	1.59
263559	2	-20	20.4	8	-2	4.4	171	-500	65.5	0.58	16	3.35	1.47
263561	-1	-20	20.4	6	-2	5	-100	-500	66.8	0.52	14.7	3.05	1.2
263562	1	-20	21.2	6	-2	4.7	-100	-500	68.4	0.53	15	3.5	1.1
263563	2	-20	20.2	6	-2	4.7	-100	-500	67.4	0.53	14.9	3.46	0.98
263564	1	-20	17.2	5	-2	3.8	-100	-500	69.2	0.47	13.6	3.21	0.79
263565	1	-20	19.2	5	-2	4.1	-100	-500	68.5	0.51	14.3	3.3	0.89
263566	1	-20	19.4	5	-2	4.3	-100	-500	68.1	0.5	14.5	3.7	0.91
263567	1	-20	20.7	6	-2	4.2	287	-500	70.5	0.51	14.9	3.48	0.8
263568	2	-20	17.9	4	-2	4	434	600	69.2	0.51	14.2	3.63	0.62
263569	2	-20	17.8	5	-2	3.9	372	-500	68.5	0.48	13.9	3.23	0.58
263570	1	-20	19.2	5	-2	4.1	155	-500	67.4	0.53	14.6	2.94	0.55
263571	3	-20	17.9	5	-2	3.9	296	-500	68.9	0.52	14.1	3.41	0.61
263572	1	-20	18.7	6	-2	3.9	530	-500	71.5	0.49	13.5	2.67	0.47
263573	1	-20	16.7	3	-2	3.9	227	-500	71.3	0.46	13.4	3.08	0.46
263574	2	-20	19.9	5	-2	4.3	491	-500	67	0.55	15	3.82	0.8
263575	2	-20	19.1	5	-2	4.1	494	-500	69.2	0.53	14.5	3.44	0.83
263576	-1	-20	17.5	5	-2	4	647	-500	70.1	0.48	13.9	3.14	0.85
263577	1	-20	18	5	-2	3.5	424	-500	71.4	0.48	13.3	3.77	0.87
263578	1	-20	19.9	5	-2	4.7	1150	-500	71.3	0.45	13.1	3.27	0.86
263579	2	-20	17.8	4	7	4	256	-500	70.2	0.47	13.7	3.44	0.75
263581	-1	-20	19.3	5	-2	4.1	222	-500	66.2	0.51	14.1	3.77	0.85
263582	1	-20	18	5	-2	4	329	-500	66.5	0.51	13.9	3.5	0.78
263583	-1	-20	18.4	5	-2	4.2	154	-500	65.6	0.51	14.1	4.07	0.9
263584	2	-20	17.5	5	-2	3.8	360	-500	68.8	0.5	13.9	3.73	0.84

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WSP6 Drill hole assays

WSP6ASSYrpt.xls

SAMPLE	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
263585	2	-20	18.2	4	-2	4.1	142	-500	70.1	0.51	14.2	3.59	0.82
263586	1	-20	18	5	-2	4.2	146	-500	68.8	0.53	14.4	3.72	0.86
	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
Units	ppm	%	%	%	%	%							
Detection	1	5	0.5	2	2	0.2	100	500	0.05	0.01	0.05	0.01	0.01
Method	GN801	X408	X408	X408	X408	X408							
Laboratory	Becquerel	Analabs	Analabs	Analabs	Analabs	Analabs							

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SAMPLE	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
263511	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263512	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263513	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263514	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263515	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263516	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263517	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263518	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263519	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263521	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263522	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263523	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263524	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263525	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263526	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263527	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263528	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263529	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263530	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
263531	NA	4.62	1.86	1.02	0.18	5.03	NA	97.3	145	NA	NA	NA
263532	NA	3.16	1.44	1.1	0.15	3.48	NA	98.1	125	NA	NA	NA
263533	NA	3.11	1.85	1.27	0.18	4.39	NA	98.4	172	NA	NA	NA
263534	NA	4.63	1.5	1.3	0.27	6.73	NA	97.3	134	NA	NA	NA
263535	NA	2.21	2.88	1.41	0.14	4.48	NA	99.3	242	NA	NA	NA
263536	NA	1.68	3.1	2.4	0.16	5.64	NA	99.9	235	NA	NA	NA
263537	NA	3.73	3.66	2.91	0.16	2.79	NA	98.8	198	NA	NA	NA
263538	NA	4.26	2.78	3.86	0.16	3.02	NA	99.3	169	NA	NA	NA
263539	NA	4.45	2.74	3.09	0.14	3.55	NA	98.3	218	NA	NA	NA
263541	NA	7.34	2.39	5.11	0.16	2.17	NA	99.2	149	NA	NA	NA
263542	NA	9.17	3.64	3.13	0.15	2.01	NA	99.2	158	NA	NA	NA
263543	NA	5.2	2.24	4.29	0.12	1.64	NA	99.2	185	NA	NA	NA
263544	NA	3.75	2.4	3.2	0.13	1.21	NA	98.6	206	NA	NA	NA
263545	NA	3.93	2.62	3.19	0.13	1.59	NA	99.6	206	NA	NA	NA
263546	NA	3.07	2.68	2.92	0.12	1.38	NA	99.4	221	NA	NA	NA
263547	NA	4.21	2.32	3.37	0.12	1.55	NA	100.2	199	NA	NA	NA

SAMPLE	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
263548	NA	2.63	2.72	2.56	0.12	2.18	NA	99.6	233	NA	NA	NA
263549	NA	1.41	3.41	1.61	0.1	2.51	NA	99.3	282	NA	NA	NA
263550	NA	3.68	2.77	2.77	0.12	4.03	NA	98.9	219	NA	NA	NA
263551	NA	1.13	3.51	0.7	0.05	2.61	NA	99.6	257	NA	NA	NA
263552	NA	1.78	3.13	2.03	0.12	2.79	NA	99.9	248	NA	NA	NA
263553	NA	0.87	2.34	1.37	0.06	2.4	NA	99.6	172	NA	NA	NA
263554	NA	0.93	2.09	1.82	0.06	2.33	NA	100.5	178	NA	NA	NA
263555	NA	2.46	1.92	3.6	0.1	1.94	NA	99.2	191	NA	NA	NA
263556	NA	2.67	1.75	3.39	0.09	1.55	NA	100.1	222	NA	NA	NA
263557	NA	2.07	2.81	2.36	0.1	0.59	NA	99.6	252	NA	NA	NA
263558	NA	1.89	2.03	3.48	0.1	1.01	NA	99.9	239	NA	NA	NA
263559	NA	2.9	3.13	2.8	0.12	0.83	NA	98.6	256	NA	NA	NA
263561	NA	4.18	2.76	2.76	0.11	0.09	NA	100	246	NA	NA	NA
263562	NA	2.6	2.74	2.84	0.11	0.13	NA	99.8	251	NA	NA	NA
263563	NA	3.21	2.54	3.25	0.11	0.1	NA	99.4	240	NA	NA	NA
263564	NA	3.66	1.85	3.75	0.09	0.06	NA	99.7	225	NA	NA	NA
263565	NA	3.2	2.63	2.81	0.1	0.2	NA	99.2	240	NA	NA	NA
263566	NA	2.56	2.3	3.59	0.1	0.1	NA	99.2	241	NA	NA	NA
263567	NA	1.63	1.89	4.45	0.1	0.16	NA	99.9	251	NA	NA	NA
263568	NA	2.58	1.01	5.51	0.11	0.13	NA	99.5	241	NA	NA	NA
263569	NA	3.47	1.7	4.34	0.1	0.23	NA	99.4	229	NA	NA	NA
263570	NA	4.06	2.49	3.42	0.11	0.06	NA	99.9	242	NA	NA	NA
263571	NA	3.11	1.49	4.68	0.1	0.07	NA	99.6	228	NA	NA	NA
263572	NA	2.94	1.4	4.59	0.1	0.16	NA	100.3	231	NA	NA	NA
263573	NA	2.74	0.98	5.09	0.1	0.1	NA	99.4	209	NA	NA	NA
263574	NA	2.47	1.87	4.75	0.11	0.14	NA	99.4	256	NA	NA	NA
263575	NA	2.02	1.51	5.06	0.11	0.13	NA	99.7	242	NA	NA	NA
263576	NA	2.11	2	4.18	0.1	0.16	NA	99.5	228	NA	NA	NA
263577	NA	1.88	1.24	4.65	0.09	0.09	NA	100	223	NA	NA	NA
263578	NA	2.21	1.1	5	0.1	0.29	NA	99.7	217	NA	NA	NA
263579	NA	2.7	2.07	3.91	0.1	0.13	NA	99.8	219	NA	NA	NA
263581	NA	4.29	2.66	3.2	0.1	0.1	NA	99.6	236	NA	NA	NA
263582	NA	4.78	2.52	3.08	0.11	0.11	NA	99.9	221	NA	NA	NA
263583	NA	4.55	2.69	2.66	0.11	0.29	NA	99.8	227	NA	NA	NA
263584	NA	3.17	2.27	3.85	0.1	0.14	NA	100	226	NA	NA	NA

WSP6 Drill hole assays

WSP6ASSYrpt.xls

SAMPLE	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
263585	NA	2.17	2.57	3.81	0.11	0.09	NA	99.9	234	NA	NA	NA
263586	NA	2.59	3.3	3	0.1	0.09	NA	99.8	228	NA	NA	NA
	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
Units	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm
Detection	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	5	50	5	30
Method	X408	GX401	GX401	GX401	X401							
Laboratory	Analabs											

427154

APPENDIX 5

**WSP7
Drill Log and Assays**

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	WSP7	DRILLED BY	Fred Ortner
PROJECT	White Spur	NORTHING	5361157
PROSPECT		EASTING	376772
DESIGNED BY	M Vicary	RL	557
LOGGED BY	M Vicary	INCLINATION	-75
COMMENCED	23/07/97	AZIMUTH	090
FINISHED	19/09/97	EOH	598.7

PURPOSE

To test a possible DHEM conductor located at the White Spur Formation - Central Volcanic Sequence contact about 300m north of WSP5, which intersected low grade Zn - Pb mineralisation. The hole was located about 100m south of a possible growth fault.

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-75	090	240	-73.2	100	450	-73.2	112
30	-74.7	094	270	-73.8	102	480.7	-73.5	113
60	-74.7	096	300	-73	103	510	-73.7	115
90	-74.2	095	330	-73.2	104	540	-73.4	117
120	-74	095	360	-73.2	105	570	-73	118
150	-73.75	095	390	-73	106	598.9	-73.2	118
181	-73.8	097	420	-73	103			
211	-74	098	442.7	-73	110			

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	0 - 193.7	Hole cased with PVC
NQ	193.7 - 598.7	

SUMMARY

Summary Log:-	
0 - 144.45	White Spur Formation
144.45 - 598.7	Central Volcanic Sequence
The hole intersected the White Spur Formation - Central Volcanics Sequence contact at 144.45m, much shallower than planned. The contact was highly sheared and most likely faulted. The Central Volcanics Sequence from 144.45 to 168m was weak to moderate sericite - chlorite and albite altered with minor disseminated pyrite and rare sphalerite and galena microveins.	

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ▣ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 1 OF 3

PROJECT : EL 5/96
 PROSPECT : WHITE SPUR
 DATE : August - September 1997
 LOGGED BY : MICHAEL VICARY

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ▣ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 2 OF 3

PROJECT : EL 5/96
 PROSPECT : WHITE SPUR
 DATE :
 LOGGED BY :

HOLE DEPTH METER	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
0-49.0						Black Siltstone	E4SS	SILT	
49.0-53.8						Gradal volcanoclastic Sandstone	E4S		VDPM
53.8-91.0						Black Siltstone	E4SS	SILT	
91.0-114.0						Ashy Siltstone	E4a	VDFA	
114.0-122.9						f-m gr vlc sst	VDPM		
122.9-142.8						Black siltstone	E4SS	SILT	FALT
142.8-144.5						fault			
144.5-159.9						M gr keldspar phytic pumiceous vlc sst	Ecv	VDPM	Skink-alk.lic.

HOLE DEPTH METER	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
0-10									
10-20									
20-30									
30-40									
40-50									
50-60									
60-70									
70-80									
80-90									
90-100									
100-110									
110-120									
120-130									
130-140									
140-150									
150-160									
160-170									
170-180									
180-190									
190-200									
200-210									
210-220									
220-230									
230-240									
240-250									
250-260									

437151

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7 (SUMMARY)

SHEET 3 OF 3

- Bedding
- ┌ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :	EL 5196
PROSPECT :	WHITE SPUR
DATE :	
LOGGED BY :	

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							COMP. No.	ROCK	ALTERATION
0									
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120						519.8-550.0			
130						probable coherent dacite			
140									
150						530.0-542.0			
160						probable coherent			
170						dacite			
180									
190						561.0-598.9			
200						probable coherent			
210						dacite			
220									
230									
240									
250									
260									
270									
280									
290									
300									
REMARKS									

COH=598.9m

427158

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ▒ Broken core
- ▒ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 1 OF 30

PROJECT : EL 5196
 PROSPECT : WHITE SPUR
 DATE : AUGUST - SEPTEMBER 1997
 LOGGED BY : MICHAEL VICARY

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ▒ Broken core
- ▒ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 2 OF 30

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG							ALTERATION	GEOLOGY NOTES	SUMMARY				
				SIL	CL	CH	SH	SL	SP	ST			TR	TRANSITION	ROCK	ALTERATION	
0												0-22m					
1												Predominantly black pyritic massive Siltstone with minor thinly bedded black siltstone					
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
REMARKS																	

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG							ALTERATION	GEOLOGY NOTES	SUMMARY				
				SIL	CL	CH	SH	SL	SP	ST			TR	TRANSITION	ROCK	ALTERATION	
0																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
REMARKS																	

427189

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7

SHEET 3 OF 30

- Bedding
- ⌊ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↖ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH M	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
1								SILT	
2						41.7-46.3 Massive laminated black siltstone and vdfm with chd alteration		VDFM/SILT	
3									
4									
5						46.3-49.0 Thinly bedded black siltstone		EPS	
6									
7								SILT	
8									
9						49.0-49.5 Coarse volcanic breccia sandstone with abundant siltstone chert			VDFM
10						49.5-53.8 Uplate granitic (felsic) phyllite volcanic breccia sandstone		EPS	
11								VDFM	
12									
13									
14									
15						53.8-56.8 Thinly bedded black siltstone with minor broken fault zones indicated			
16								SILT	
17									
18									
19						56.8-70.4 massive to thinly bedded black siltstone			
20									
REMARKS									

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7

SHEET 4 OF 30

- Bedding
- ⌊ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↖ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH M	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
REMARKS									

427160

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 7

SHEET 5 OF 30

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						DESCRIPTION	ROCK	ALTERATION
1								
2								
3								
4								
5					88-1-85 B Broken Zone, Minor Vg			
6					85B-887			
7		So 50 S, 10			Thinly bedded brecciated white siliceous rock layers mm scale lamellae.	E455	SILT	
8								
9					887-910			
10		So 18			Relatively massive black siltstone			
11								
12					910-925			
13					Dark grey finely bedded silty siltstone			
14								
15					925-114-1			
16					Yellow-grey finely bedded silty siltstone grading downhole to fine grained silty volcaniclastic sst.			
17						E49	VDFA	
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
REMARKS								

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 7

SHEET 6 OF 30

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						DESCRIPTION	ROCK	ALTERATION
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
REMARKS								

427101

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7

SHEET 7 OF 30

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							Formulation	ROCK	ALTERATION
0									
1									
2									
3				50.60		122.9-125.0 Thinly bedded black siltstone			
4				50.00					
5									
6						125.0-146.45 Predominantly massive to thinly bedded black siltstone often with a strong tectonic fabric.			
7									
8									
9									
10				50.25					
11									
12									
13						132.7-133.0 massive			
14									
15									
16						136.0-136.2 massive			
17									
18				5.20					
19									
20						139.6-139.8 VDFM			
REMARKS									

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7

SHEET 8 OF 30

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							Formulation	ROCK	ALTERATION
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
REMARKS									
263600 = STD									
L/S = Lithogeochem Sample									

427102

- Bedding
- ⊥ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
		Cu	Pb	Zn					LABORATORY	ROCK	ALTERATION
0.5	008	15	60	67							AO-6
1	009	6	232	742							SO-7
2	010	12	54	113							SO-7
3	011	20	155	1623							AO-6
4	012	7	54	64							SO-7
5	013	6	60	93							SO-7
6	014	8	70	74							SO-7
7	015	6	65	100							SO-7
8	016	20	47	163							AO-6
9	017	13	95	139							AO-6
10	018	15	73	168							AO-6
11	019	6	16	51							AO-6
12	020	6	47	64							AO-6
13	021	9	24	215							AO-6
14	022	8	77	120							AO-6
15	023	10	100	126							AO-6
16	024	9	25	136							AO-6
17	026	10	30	79							AO-6
18	027	15	36	144							AO-6
19	028	13	92	1705							AO-6

REMARKS
 1070025 = STD
 L/S = Lithogeochem Sample

427163

- Bedding
- ⊥ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
		Cu	Pb	Zn					LABORATORY	ROCK	ALTERATION
0.5	029	10	13	203							AO-7
1	030	5	9	40							AO-7
2	031	6	4	39							AO-7
3	032	10	21	37							AO-7
4	033	8	20	60							AO-7
5											AO-7
6											AO-7
7											AO-7
8											AO-7
9											AO-7
10											AO-7
11											AO-7
12											AO-7
13											AO-7
14											AO-7
15											AO-7
16											AO-7
17											AO-7
18											AO-7
19											AO-7
20											AO-7

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7

SHEET 13 OF 30

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	
DATE :	
LOGGED BY :	

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7

SHEET 14 OF 30

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	
DATE :	
LOGGED BY :	

HOLE DEPTH SAMPLE NO PREP	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
250						Ecu	UDFM	OC-6
1								
2								
3								
4								
5								
6								
7								
8								
9								
270						Ecu	UDFM	CO-6
1								
2								
3								
4								
5								
6								
7								
8								
9								
270						Ecu	UDFM	CO-6
1								
2								
3								
4								
5								
6								
7								
8								
9								
270						Ecu	UDFM	CO-6
REMARKS								

HOLE DEPTH SAMPLE NO PREP	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
270						Ecu	UDFM	OC-6
1								
2								
3								
4								
5								
6								
7								
8								
9								
270						Ecu	UDFM	CO-6
1								
2								
3								
4								
5								
6								
7								
8								
9								
270						Ecu	UDFM	CO-6
REMARKS								

427103

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFL	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						PREVENTION	ROCK	ALTERATION
00								
1								
2								
3								
4								
5								
6								
7								
8								
9								
20								
1								
2								
3								
4								
5								
6								
7								
8								
9								
REMARKS								

427166

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFL	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
	Cu	Pb	Zn					PREVENTION	ROCK	ALTERATION
00										
1020 034	7	3	34	46						
302										
304										
306										
308										
310										
312										
314										
316										
318										
320										
REMARKS										
46 Lithogeochem Sample										

Cu
VDFM
OA. 6

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ▨ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
320								OA-6
322								
324								
326								
328							A.O. 6	
330						EU	UBFM	
332							OB-6	
334								
336								
338								
340								
REMARKS								

427107

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ▨ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
342								
344								
346								
348								
350								
352								
354								
356								
358								
360								
REMARKS								

EU
UBFM
OA-6
AO-6
A-7
AO-6

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 7

SHEET 19 OF 30

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊗ Breccia
- ⊠ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
360									
362									
364								A-8	
366									
368								A0-7	
370							Ew	VDFM	
372								A0-6	
374									
376									
378								A5-6	
380									
REMARKS									

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 7

SHEET 20 OF 30

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊗ Breccia
- ⊠ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
380									
382									
384									
386									
388									
390									
392									
394									
396									
398									
400									
REMARKS									

407168

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7

SHEET 21 OF 30

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION					GEOLOGY NOTES	SUMMARY					
	Cu	Pb	Zn			SIL	CL	CHL	SO ₄	OX		IPY	Other	REMARKS	ROCK	ALTERATION	
420																	
402																	
400	1020 035	9	6	36	LG												
406																	
408																	
440																	
442																	
444																	
446																	
448																	
470																	
REMARKS LG = Lithogeochem Sample																	

427109

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7

SHEET 22 OF 30

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION					GEOLOGY NOTES	SUMMARY					
	Cu	Pb	Zn			SIL	CL	CHL	SO ₄	OX		IPY	Other	REMARKS	ROCK	ALTERATION	
420																	
422																	
424																	
426																	
428																	
430																	
432																	
434																	
436																	
438																	
440																	
REMARKS																	

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ▨ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 25 OF 30

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE PREFX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						VEIN	ROCK	ALTERATION
480								
482					482-513 Zone of texturally destructive Albite-carbonate (Ankerite) alteration.			
484					Note: From 482-504 Rock becomes generally more massive with floating kalsapor phenos. At times it looks like a porphyritic kalsapor, However primary textures can be overprinted by intense alteration.			
486								
488								
490								
492								
494								
496								
498								
500								
REMARKS								

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ▨ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 26 OF 30

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE PREFX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						VEIN	ROCK	ALTERATION
500	Cu Pb Zn							
502								
504								
506								
508	1020 036 4 12 7 46							
510								
512								
514								
516								
518								
520								
REMARKS								
Lit = Lithogechum Sample								

427171

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 7

SHEET 27 OF 30

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH METER	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
520									
522									
524								LDI?	
526									AO-7
528									
530						530-538 Eldersburg phytic volcanoclastic sandstone			
532						533-538 slight increase in chlorite alteration.			
534							VDFM		SOA7
536									
538								LDI?	AO-b
540									
REMARKS									

427172

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 7

SHEET 28 OF 30

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH METER	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
540						538-542 Eldersburg phytic dacitic lava intrusives 'Planting style in fine groundmass'			
542						542-56' Eldersburg phytic dacitic volcanoclastic sandstone			
544									
546									
548									
550									
552									
554									
556									
558									
560									
REMARKS									

Ccy

VDF?

AO-7

SAO6

SOA7

AO-7

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7
SHEET 29 OF 30

- Bedding
- ┌ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
PROSPECT : _____
DATE : _____
LOGGED BY : _____

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7
SHEET 30 OF 30

- Bedding
- ┌ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
PROSPECT : _____
DATE : _____
LOGGED BY : _____

HOLE DEPTH m	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							Estimated ROCK	ROCK	ALTERATION
560	1020 037	Cu Pb Zn 5 20 9		9700		Below soil rock is very massive albitic feld-spic gtz phytic rock. Could be local intrusive. brecciated upper contact 500.5-561.0			
562									
564									
566									
568									
570									
572									
574									
576									
578									
REMARKS									
46 = Lithogeochem									

HOLE DEPTH m	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							Estimated ROCK	ROCK	ALTERATION
560									
562									
564									
566									
568									
570									
572									
574									
576									
578									
REMARKS									
EOH = 5989									

427123

WSP7 Drill hole assays

wsp7assfinal.xls

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
263587	WSP7	140	141	5361154.1	376809.6	421.7	62	NA	89	NA	92	NA	-1
263588	WSP7	141	142	5361154.0	376809.9	420.7	31	NA	99	NA	102	NA	-1
263589	WSP7	142	142.8	5361154.0	376810.1	419.8	25	NA	212	NA	429	NA	1
263590	WSP7	142.8	143.4	5361154.0	376810.3	419.2	25	NA	358	NA	585	NA	-1
263591	WSP7	143.4	144.45	5361154.0	376810.5	418.4	24	NA	729	NA	1542	NA	-1
263592	WSP7	144.45	145.7	5361153.9	376810.8	417.3	7	NA	182	NA	284	NA	-1
263593	WSP7	145.7	146.7	5361153.9	376811.2	416.2	9	NA	39	NA	25	NA	-1
263594	WSP7	146.7	147.7	5361153.9	376811.4	415.2	7	NA	41	NA	87	NA	-1
263595	WSP7	147.7	148.7	5361153.9	376811.7	414.3	8	NA	39	NA	29	NA	-1
263596	WSP7	148.7	150	5361153.8	376812.0	413.2	11	NA	24	NA	21	NA	-1
263597	WSP7	150	151	5361153.8	376812.4	412.1	9	NA	19	NA	31	NA	-1
263598	WSP7	151	152	5361153.8	376812.6	411.1	5	NA	28	NA	33	NA	-1
263599	WSP7	152	153	5361153.8	376812.9	410.1	10	NA	32	NA	43	NA	-1
1020001	WSP7	153	154	5361153.7	376813.2	409.2	17	NA	7	NA	40	NA	-1
1020002	WSP7	154	155	5361153.7	376813.5	408.2	9	NA	21	NA	49	NA	-1
1020003	WSP7	155	156	5361153.7	376813.8	407.3	9	NA	6	NA	57	NA	-1
1020004	WSP7	156	157	5361153.7	376814.0	406.3	8	NA	13	NA	47	NA	-1
1020005	WSP7	157	158	5361153.6	376814.3	405.3	9	NA	14	NA	90	NA	-1
1020006	WSP7	158	159	5361153.6	376814.6	404.4	10	NA	20	NA	81	NA	-1
1020007	WSP7	159	160	5361153.6	376814.9	403.4	7	NA	10	NA	63	NA	-1
1020008	WSP7	160	161	5361153.6	376815.1	402.5	15	NA	60	NA	67	NA	-1
1020009	WSP7	161	162	5361153.5	376815.4	401.5	6	NA	232	NA	742	NA	-1
1020010	WSP7	162	163	5361153.5	376815.7	400.5	12	NA	54	NA	113	NA	-1
1020011	WSP7	163	164	5361153.5	376816.0	399.6	20	NA	155	NA	1623	NA	-1
1020012	WSP7	164	165	5361153.4	376816.3	398.6	7	NA	54	NA	64	NA	-1
1020013	WSP7	165	166	5361153.4	376816.5	397.7	6	NA	60	NA	93	NA	-1
1020014	WSP7	166	167	5361153.4	376816.8	396.7	8	NA	70	NA	74	NA	-1
1020015	WSP7	167	168	5361153.4	376817.1	395.7	6	NA	65	NA	100	NA	-1
1020016	WSP7	168	169	5361153.3	376817.4	394.8	20	NA	47	NA	143	NA	-1
1020017	WSP7	169	170	5361153.3	376817.6	393.8	13	NA	95	NA	139	NA	-1
1020018	WSP7	170	171	5361153.3	376817.9	392.9	15	NA	73	NA	168	NA	-1
1020019	WSP7	171	172	5361153.2	376818.2	391.9	6	NA	16	NA	51	NA	-1
1020020	WSP7	172	173	5361153.2	376818.5	390.9	6	NA	47	NA	64	NA	-1
1020021	WSP7	173	174	5361153.2	376818.8	390.0	9	NA	24	NA	215	NA	-1
1020022	WSP7	174	175	5361153.1	376819.0	389.0	8	NA	77	NA	120	NA	-1

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WSP7 Drill hole assays

wsp7assfinal.xls

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
1020023	WSP7	175	176	5361153.1	376819.3	388.1	10	NA	100	NA	126	NA	-1
1020024	WSP7	176	177	5361153.1	376819.6	387.1	9	NA	25	NA	136	NA	-1
1020026	WSP7	177	178	5361153.0	376819.9	386.1	10	NA	30	NA	79	NA	-1
1020027	WSP7	178	179	5361153.0	376820.1	385.2	15	NA	36	NA	614	NA	-1
1020028	WSP7	179	180	5361153.0	376820.4	384.2	13	NA	92	NA	1705	NA	-1
1020029	WSP7	180	181	5361152.9	376820.7	383.3	10	NA	13	NA	203	NA	-1
1020030	WSP7	181	182	5361152.9	376821.0	382.3	5	NA	9	NA	40	NA	-1
1020031	WSP7	182	183	5361152.9	376821.2	381.3	6	NA	4	NA	39	NA	-1
1020032	WSP7	183	184	5361152.8	376821.5	380.4	10	NA	21	NA	37	NA	-1
1020033	WSP7	184	185	5361152.8	376821.8	379.4	8	NA	20	NA	60	NA	1
1020034	WSP7	300	301	5361147.0	376854.0	268.1	7	NA	-3	NA	34	NA	1
1020035	WSP7	404	405	5361139.4	376883.3	168.6	9	NA	6	NA	36	NA	-1
1020036	WSP7	507	508	5361129.3	376911.1	70.0	4	NA	12	NA	7	NA	-1
1020037	WSP7	569	570	5361121.3	376926.9	10.6	5	NA	20	NA	9	NA	1

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
						Units	ppm	%	ppm	%	ppm	%	ppm
						Detection	4	0.01	5	0.01	4	0.01	2
						Method	GA101	GA104	GA101	GA104	GA101	GA104	GA101
						Laboratory	Analabs						

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WSP7 Drill hole assays

wsp7assfinal.xls

SAMPLE	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
263587	-5	NA	41	NA	440	1280	-1	-1	145	14	83	9	1.8
263588	-5	NA	45	NA	-5	809	-1	1.8	67	17	103	5	1.1
263589	-5	NA	69	NA	10	1170	-1	1.3	98	19	129	9	1.4
263590	-5	NA	92	NA	-5	933	2	1.3	107	19	109	15	1.5
263591	-5	NA	129	NA	-5	977	-1	4	144	8	48	7	2.6
263592	-5	NA	166	NA	20	1970	-1	-1	201	9	-5	14	2.4
263593	-5	NA	20	NA	-5	1400	-1	3.2	143	4	8	10	2
263594	-5	NA	54	NA	10	1320	1	3.7	143	4	6	10	2.3
263595	-5	NA	26	NA	10	1260	1	1.6	140	5	14	10	2.1
263596	-5	NA	9	NA	-5	1230	1	1.2	154	6	-5	10	2.2
263597	-5	NA	8	NA	-5	1250	-1	1.5	147	5	-5	9	2.2
263598	-5	NA	5	NA	-5	1310	1	1.5	147	4	6	10	2.1
263599	-5	NA	6	NA	130	1140	-1	1.7	145	5	12	9	2.3
1020001	-5	NA	7	NA	-5	1450	-1	1.7	155	5	6	9	1.9
1020002	-5	NA	7	NA	-5	1140	1	1.5	148	5	5	10	2
1020003	-5	NA	7	NA	-5	1040	-1	1.8	153	6	9	9	2
1020004	-5	NA	7	NA	-5	1070	-1	1.7	136	5	-5	8	1.7
1020005	-5	NA	21	NA	-5	1260	-1	1.7	143	6	6	7	2.1
1020006	-5	NA	6	NA	-5	622	-1	1.4	124	5	8	4	1.6
1020007	-5	NA	6	NA	-5	573	-1	-1	118	5	23	3	1.5
1020008	-5	NA	23	NA	-5	239	-1	1.7	112	5	9	-1	1.5
1020009	-5	NA	25	NA	-5	745	1	1.6	124	4	7	3	1.6
1020010	-5	NA	35	NA	-5	1120	-1	1.9	120	5	19	5	2
1020011	-5	NA	198	NA	-5	327	2	1.6	110	4	11	1	1.5
1020012	-5	NA	65	NA	-5	342	1	1.2	122	4	12	1	1.7
1020013	-5	NA	20	NA	-5	698	-1	1.3	116	5	9	2	1.7
1020014	-5	NA	24	NA	-5	1140	1	1.9	126	4	15	5	1.8
1020015	-5	NA	24	NA	-5	970	2	1.9	126	5	8	4	2
1020016	-5	NA	93	NA	-5	309	-1	1.1	96	3	14	-1	1.4
1020017	-5	NA	11	NA	40	291	1	-1	117	4	14	2	1.5
1020018	-5	NA	16	NA	20	396	-1	-1	130	4	11	2	1.9
1020019	-5	NA	8	NA	-5	478	-1	1.9	154	3	5	2	2.2
1020020	-5	NA	15	NA	-5	374	-1	1.5	112	4	13	2	1.7
1020021	-5	NA	30	NA	-5	556	-1	1.1	117	4	8	2	1.6
1020022	-5	NA	73	NA	-5	506	1	-1	120	4	12	-1	1.7

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WSP7 Drill hole assays

wsp7assfinal.xls

SAMPLE	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
1020023	-5	NA	107	NA	-5	516	-1	1.2	113	2	11	2	1.5
1020024	-5	NA	22	NA	-5	445	-1	1.1	122	4	11	2	1.9
1020026	-5	NA	184	NA	-5	378	2	1.6	125	4	12	2	1.9
1020027	-5	NA	141	NA	-5	355	-1	1.2	134	5	17	2	1.7
1020028	-5	NA	114	NA	-5	940	-1	1.2	129	6	-5	6	1.9
1020029	-5	NA	36	NA	-5	1010	-1	2	114	3	10	6	1.4
1020030	-5	NA	8	NA	-5	1100	-1	2.8	111	4	6	7	1.8
1020031	-5	NA	8	NA	-5	1120	1	2	127	4	6	7	1.5
1020032	-5	NA	10	NA	-5	822	-1	1.5	111	4	10	3	1.5
1020033	-5	NA	41	NA	-5	1090	1	1.7	123	6	-5	6	1.6
1020034	-5	NA	3	NA	-5	3710	-1	2	137	5	9	9	2
1020035	-5	NA	4	NA	-5	2370	-1	1.6	123	4	6	5	1.8
1020036	-5	NA	12	NA	-5	344	-1	1.2	51	5	12	2	1
1020037	-5	NA	4	NA	-5	1200	1	1	109	5	18	3	1.6

	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection	5	1	1	0.008	5	100	2	1	2	1	5	1	0.5
Method	GN801	GA101	GN801	GG309	GN801								
Laboratory	Becquerel	Analabs	Becquerel	Analabs	Becquerel								

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WSP7 Drill hole assays

wsp7assfinal.xls

SAMPLE	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
263587	4.7	7.9	-20	3.1	61.6	0.8	-5	0.5	170	6.8	15.4	-5	11.8
263588	3.3	3.3	-20	1.8	27.8	0.4	-5	0.36	85	9.4	11.5	-5	5.7
263589	3.45	5.5	-20	3.1	40.8	0.6	7	0.33	150	12.7	14.7	-5	7.9
263590	4.34	5.7	-20	2.7	44.6	0.6	-5	0.07	130	13.1	13.8	-5	8
263591	4.46	6.2	-20	2.6	61.8	0.7	-5	0.1	135	5.5	11.1	-5	12
263592	2.74	10.4	-20	5.5	88.8	0.7	-5	0.82	270	6.9	15.7	-5	16
263593	2.45	7.9	-20	4.1	63.4	0.6	-5	0.78	195	3	12.7	-5	12.2
263594	3.37	7.7	-20	3.7	61.2	0.7	-5	0.86	185	3.1	12.5	-5	12.2
263595	2.57	8	-20	3.7	62	0.8	-5	1.12	195	3.2	12.2	-5	11.7
263596	2.2	8.5	-20	4.1	66.6	0.8	-5	1.06	200	2.1	12.9	-5	12.5
263597	2.26	7.9	-20	4.1	64.1	0.8	-5	1.1	185	1.9	11.9	-5	12
263598	1.89	8.3	-20	3.6	64.3	0.7	-5	0.89	200	1.7	12.6	-5	11.9
263599	2.44	7.7	-20	3.7	64.3	0.7	-5	1.05	180	1.4	11.6	-5	11.9
1020001	2.4	8.5	-20	4.5	69.3	0.8	-5	1.04	195	1.5	12.8	-5	12.7
1020002	2.62	8.3	-20	3.7	65.8	0.8	-5	1.09	175	1.3	12.1	-5	12
1020003	2.55	8.1	-20	3.4	65.9	0.8	-5	1.35	180	1.3	12.5	-5	12.4
1020004	2.47	7.4	-20	3.3	59.3	0.8	-5	1.37	150	1.2	11.5	-5	11.2
1020005	2.59	8.2	-20	2.9	62.3	0.8	-5	1.78	160	1.5	12	-5	11.6
1020006	2.28	6.8	-20	1.7	54.1	0.7	-5	3.36	85	1.3	10.6	-5	10
1020007	2.57	7.6	-20	1.5	49.9	0.7	-5	4.25	50	1	11.1	-5	9.8
1020008	1.86	6.4	-20	0.4	49.2	0.6	-5	5.23	25	0.8	9.3	-5	9.2
1020009	2.69	7.3	-20	1.6	54.1	0.7	-5	3.56	85	1.1	10.7	-5	10.4
1020010	2.57	6.9	-20	1.9	52.4	0.6	-5	2.14	120	1.5	10.2	-5	10.1
1020011	2.12	6.3	-20	0.4	48	0.6	-5	4.47	30	1.1	9.1	-5	9.1
1020012	2.6	6.5	-20	0.7	53.1	0.6	-5	4.65	30	1.3	9.9	-5	10
1020013	2.44	7	-20	1.5	50.1	0.6	-5	4.18	55	1	10.1	-5	10
1020014	2.45	7.1	-20	2.2	55.8	0.6	-5	2.19	135	1.1	10.6	-5	10.4
1020015	2.83	6.8	-20	1.3	56.3	0.7	-5	2.82	115	1.1	10.4	-5	10.3
1020016	1.93	5.7	-20	-0.2	41.9	0.5	-5	4.59	20	0.7	8.7	-5	8.2
1020017	2.56	6	-20	-0.2	52.1	0.5	-5	4.54	40	0.8	9.5	-5	9.4
1020018	2.45	6.4	-20	0.6	58.2	0.5	-5	4.5	35	0.6	9.6	-5	10.3
1020019	2.23	6.4	-20	0.4	65.8	0.6	-5	4.32	45	0.7	9.9	-5	11.9
1020020	2.46	6.3	-20	0.3	49.5	0.6	-5	4.47	30	0.7	9.2	-5	9.1
1020021	2.32	6.4	-20	0.5	50.7	0.6	-5	4.17	60	1	10	-5	9.4
1020022	2.69	6.4	-20	0.4	53.6	0.7	-5	4.5	50	0.7	10.1	-5	9.7

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WSP7 Drill hole assays

wsp7assfinal.xls

SAMPLE	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
1020023	2.19	5.8	-20	0.4	50.3	0.5	-5	4.24	50	0.9	9.3	-5	9.2
1020024	2.65	6.7	-20	1	55.4	0.6	-5	4.51	50	0.9	10	-5	9.8
1020026	2.08	6.1	-20	0.2	53.1	0.6	-5	4.5	30	0.7	9.1	-5	10.1
1020027	2.51	6	-20	0.3	62.1	0.6	-5	4.13	50	1	9.4	-5	9.9
1020028	2.66	6.8	-20	2.4	57.9	0.7	-5	2.62	115	1.2	10.4	-5	10.2
1020029	2.22	6.2	-20	2.7	50.5	0.6	-5	1.59	140	0.8	9.4	-5	9
1020030	2.18	6.1	-20	2.7	48.4	0.6	-5	1.47	150	0.6	9.3	-5	9
1020031	2.69	7.1	-20	3.2	55.9	0.7	-5	1.75	165	1	10.8	-5	10.2
1020032	2.25	6.6	-20	1.2	48.5	0.6	-5	3.65	75	1	9.7	-5	8.9
1020033	2.47	6.7	-20	2.3	55.9	0.6	-5	2.63	115	0.8	10.2	-5	9.7
1020034	2.71	7.4	-20	4.7	61.4	0.7	-5	0.97	250	1.3	11.3	-5	11.1
1020035	2.5	6.6	-20	4.1	54.7	0.6	-5	1.1	185	1.6	10	-5	9.7
1020036	1.81	5	-20	0.2	19.1	0.5	-5	3.77	40	0.8	7.8	-5	5
1020037	2.24	5.8	-20	3.4	48.5	0.6	5	2.73	95	1.4	8.3	-5	8.5

	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
Units	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection	0.05	0.5	20	0.2	0.5	0.2	5	0.01	20	0.2	0.1	5	0.2
Method	GN801												
Laboratory	Becquerel												

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WSP7 Drill hole assays

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SAMPLE	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
263587	1	-5	23.7	7	-2	4.9	127	-500	NA	NA	NA	NA	NA
263588	-1	-5	10	3	-2	2.8	118	-500	NA	NA	NA	NA	NA
263589	-1	-5	16.6	4	-2	3.6	511	-500	NA	NA	NA	NA	NA
263590	2	-5	16.7	5	-2	3.9	626	-500	NA	NA	NA	NA	NA
263591	-1	-5	19.4	7	4	4.7	1510	-500	NA	NA	NA	NA	NA
263592	2	-5	31.5	48	-2	5.2	355	-500	NA	NA	NA	NA	NA
263593	1	-5	24.3	16	-2	4.6	-100	-500	NA	NA	NA	NA	NA
263594	2	-5	23.4	9	-2	4.5	-100	-500	NA	NA	NA	NA	NA
263595	1	-5	24.4	10	-2	5.2	-100	-500	NA	NA	NA	NA	NA
263596	2	-5	25.6	6	-2	4.9	-100	-500	NA	NA	NA	NA	NA
263597	2	-5	24.1	6	-2	4.9	-100	-500	NA	NA	NA	NA	NA
263598	-1	-5	25	5	-2	4.8	-100	-500	NA	NA	NA	NA	NA
263599	1	-5	23.9	5	-2	4.9	-100	-500	NA	NA	NA	NA	NA
1020001	2	-5	25.8	5	-2	5.2	-100	-500	NA	NA	NA	NA	NA
1020002	-1	-5	24.9	6	-2	5.1	-100	-500	NA	NA	NA	NA	NA
1020003	2	-5	24.5	5	-2	5.2	-100	-500	NA	NA	NA	NA	NA
1020004	1	-5	22.8	6	-2	4.9	-100	-500	NA	NA	NA	NA	NA
1020005	-1	-5	24.3	7	-2	5	112	-500	NA	NA	NA	NA	NA
1020006	1	-5	20.9	6	-2	4.3	115	-500	NA	NA	NA	NA	NA
1020007	-1	-5	22.3	7	-2	4.3	-100	-500	NA	NA	NA	NA	NA
1020008	1	-5	19.4	7	-2	3.9	101	-500	NA	NA	NA	NA	NA
1020009	2	-5	22.1	7	-2	4.5	795	-500	NA	NA	NA	NA	NA
1020010	1	-5	20.7	6	-2	4.2	115	-500	NA	NA	NA	NA	NA
1020011	-1	-5	19.2	5	-2	3.7	2060	-500	NA	NA	NA	NA	NA
1020012	-1	-5	19.7	4	-2	3.9	-100	-500	NA	NA	NA	NA	NA
1020013	3	-5	21	4	-2	4	120	-500	NA	NA	NA	NA	NA
1020014	1	-5	21.1	5	-2	4.2	103	-500	NA	NA	NA	NA	NA
1020015	2	-5	21.2	6	-2	4.4	129	-500	NA	NA	NA	NA	NA
1020016	2	-5	17.7	3	-2	3.6	167	-500	NA	NA	NA	NA	NA
1020017	1	-5	19.7	5	-2	3.7	161	-500	NA	NA	NA	NA	NA
1020018	1	-5	20.4	5	-2	3.6	187	-500	NA	NA	NA	NA	NA
1020019	-1	-5	19.8	7	-2	4.2	-100	-500	NA	NA	NA	NA	NA
1020020	2	-5	19	6	-2	3.8	-100	-500	NA	NA	NA	NA	NA
1020021	1	-5	20.1	6	-2	4	240	-500	NA	NA	NA	NA	NA
1020022	2	-5	20.5	5	-2	4.1	138	-500	NA	NA	NA	NA	NA

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WSP7 Drill hole assays

wsp7assfinal.xls

SAMPLE	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
1020023	2	-5	19.1	5	-2	3.5	146	-500	NA	NA	NA	NA	NA
1020024	-1	-5	20.5	6	-2	4	149	-500	NA	NA	NA	NA	NA
1020026	2	-5	18.9	6	-2	3.9	-100	-500	NA	NA	NA	NA	NA
1020027	2	-5	18.9	6	-2	3.6	602	-500	NA	NA	NA	NA	NA
1020028	2	-5	21.2	6	-2	4.3	1600	-500	NA	NA	NA	NA	NA
1020029	1	-5	19.9	4	-2	3.9	209	-500	NA	NA	NA	NA	NA
1020030	-1	-5	18.8	5	-2	3.9	-100	-500	NA	NA	NA	NA	NA
1020031	1	-5	21.7	5	-2	4.5	-100	-500	NA	NA	NA	NA	NA
1020032	-1	-5	19.7	5	-2	3.9	-100	-500	NA	NA	NA	NA	NA
1020033	1	-5	20.7	5	-2	4.1	112	-500	NA	NA	NA	NA	NA
1020034	2	-5	23.3	6	-2	4.7	-100	-500	NA	NA	NA	NA	NA
1020035	2	-5	20.2	4	-2	4.1	-100	-500	NA	NA	NA	NA	NA
1020036	-1	-5	16.8	4	-2	3.3	-100	-500	NA	NA	NA	NA	NA
1020037	2	-5	18.4	4	-2	3.5	-100	-500	NA	NA	NA	NA	NA
	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
Units	ppm	%	%	%	%	%							
Detection	1	5	0.5	2	2	0.2	100	500	0.05	0.01	0.05	0.01	0.01
Method	GN801	X408	X408	X408	X408	X408							
Laboratory	Becquerel	Analabs	Analabs	Analabs	Analabs	Analabs							

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WSP7 Drill hole assays

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SAMPLE	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
263587	NA	NA	NA	NA	NA	NA	NA	NA	254	2981	59	NA
263588	NA	NA	NA	NA	NA	NA	NA	NA	106	2374	69	NA
263589	NA	NA	NA	NA	NA	NA	NA	NA	183	2977	82	NA
263590	NA	NA	NA	NA	NA	NA	NA	NA	193	2979	81	NA
263591	NA	NA	NA	NA	NA	NA	NA	NA	200	1727	37	NA
263592	NA	NA	NA	NA	NA	NA	NA	NA	360	3262	67	NA
263593	NA	NA	NA	NA	NA	NA	NA	NA	266	2570	37	NA
263594	NA	NA	NA	NA	NA	NA	NA	NA	254	2538	32	NA
263595	NA	NA	NA	NA	NA	NA	NA	NA	262	2581	37	NA
263596	NA	NA	NA	NA	NA	NA	NA	NA	285	2847	42	NA
263597	NA	NA	NA	NA	NA	NA	NA	NA	264	2657	38	NA
263598	NA	NA	NA	NA	NA	NA	NA	NA	279	2916	44	NA
263599	NA	NA	NA	NA	NA	NA	NA	NA	261	2652	44	NA
1020001	NA	NA	NA	NA	NA	NA	NA	NA	292	2999	44	NA
1020002	NA	NA	NA	NA	NA	NA	NA	NA	272	2880	37	NA
1020003	NA	NA	NA	NA	NA	NA	NA	NA	278	2940	46	NA
1020004	NA	NA	NA	NA	NA	NA	NA	NA	271	2773	41	NA
1020005	NA	NA	NA	NA	NA	NA	NA	NA	271	3038	41	NA
1020006	NA	NA	NA	NA	NA	NA	NA	NA	232	2588	34	NA
1020007	NA	NA	NA	NA	NA	NA	NA	NA	249	2905	42	NA
1020008	NA	NA	NA	NA	NA	NA	NA	NA	217	2531	30	NA
1020009	NA	NA	NA	NA	NA	NA	NA	NA	250	2587	44	NA
1020010	NA	NA	NA	NA	NA	NA	NA	NA	231	2364	38	NA
1020011	NA	NA	NA	NA	NA	NA	NA	NA	209	2346	32	NA
1020012	NA	NA	NA	NA	NA	NA	NA	NA	232	2729	40	NA
1020013	NA	NA	NA	NA	NA	NA	NA	NA	236	2569	35	NA
1020014	NA	NA	NA	NA	NA	NA	NA	NA	238	2380	37	NA
1020015	NA	NA	NA	NA	NA	NA	NA	NA	243	2529	42	NA
1020016	NA	NA	NA	NA	NA	NA	NA	NA	209	2405	36	NA
1020017	NA	NA	NA	NA	NA	NA	NA	NA	232	2637	43	NA
1020018	NA	NA	NA	NA	NA	NA	NA	NA	236	2592	43	NA
1020019	NA	NA	NA	NA	NA	NA	NA	NA	225	2355	35	NA
1020020	NA	NA	NA	NA	NA	NA	NA	NA	222	2490	36	NA
1020021	NA	NA	NA	NA	NA	NA	NA	NA	239	2622	43	NA
1020022	NA	NA	NA	NA	NA	NA	NA	NA	245	2699	42	NA

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WSP7 Drill hole assays

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SAMPLE	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
1020023	NA	239	2622	43	NA							
1020024	NA	242	2765	35	NA							
1020026	NA	219	2427	35	NA							
1020027	NA	224	2517	39	NA							
1020028	NA	248	2465	31	NA							
1020029	NA	225	2377	32	NA							
1020030	NA	211	2191	32	NA							
1020031	NA	250	2532	38	NA							
1020032	NA	226	2489	33	NA							
1020033	NA	240	2577	36	NA							
1020034	NA	247	2254	30	NA							
1020035	NA	228	2127	30	NA							
1020036	NA	190	2052	28	NA							
1020037	NA	206	1970	29	NA							
	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
Units	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm
Detection	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	5	50	5	30
Method	X408	GX401	GX401	GX401	X401							
Laboratory	Analabs											

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APPENDIX 6

**WSP8
Drill Log and Assays**

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	WSP8	DRILLED BY	Fred Ortner
PROJECT	White Spur	NORTHING	5360986
PROSPECT		EASTING	376812
DESIGNED BY	M Vicary	RL	565
LOGGED BY	M Vicary	INCLINATION	-60
COMMENCED	24/09/97	AZIMUTH	090
FINISHED	03/11/97	EOH	385.3

PURPOSE

To test the White Spur Formation - Central Volcanic Sequence contact about 150m north of WSP5, which intersected low grade Zn - Pb mineralisation. The hole was targeted at a combined CSAMT, DIGHEM and DHEM anomaly.

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-60	090	120	-55.2	098	241	-50	098
30	-59.2	100	150	-54	097	271	-48	098
34	-58.7	096	180	-52.5	098	301	-46.5	102
60	-58	097	205	-51.5	098	330	-45	104
91.3	-56.9	097	223	-50.75	098	360	-44.8	105

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	0 - 278.4	Hole cased with PVC to end of hole.
NQ	278.4 - EOH	

SUMMARY

Summary Log:-	
0 - 8.4	Mass flows
8.4 - 21.1	Black siltstone
21.1 - 47.0	Rhyolite intrusion
47.0 - 64.7	Black siltstone
64.7 - 85.2	Rhyolite intrusion
85.2 - 117.0	Black siltstone
117.0 - 170.3	Ashy siltstone and fine grained dacitic volcanoclastic sandstone
170.3 - 215.0	Black siltstone
215.0 - 218.2	Dacitic volcanoclastic sandstone
218.2 - 243.2	Interbedd black siltstone and ashy siltstone
243.2 - 264.9	Ashy siltstone and fine grained dacitic volcanoclastic sandstone
264.9 - 277.2	Altered Central Volcanic Sequence
	inc. 265 - 267.8m 2.8m @ 0.7% Zn and 0.2% Pb
277.2 - 385.3	Central Volcanic Sequence

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8 (SUMMARY)

SHEET 1 OF 2

- Bedding
- └ Cleavage
- └ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : EL 5/96
 PROSPECT : WHITE SPUR
 DATE :
 LOGGED BY :

HOLE DEPTH METER	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0-8.4					Polymictic Massflow	Cmf	CLC	
8.4-21					Black siltstone	CSS	SILT	
21-47.05					Rhyolite Intrusive	CP	IRZ	
47.05-64.7					Black siltstone	CSS	SILT	
64.7-85.2					Rhyolite Intrusive	CP	IRZ	
85.2-117.0					Black siltstone	CSS	SILT	
117.0-120.0					Interbedded black siltstone and ashy siltstone			VOB-SILT
120.0-170.3					Interbedded ashy siltstone and f.g.v. volcanoclastic sandstone			VOB
170.3-215.2					Black siltstone			VOB

REMARKS

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RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8 (SUMMARY)

SHEET 2 OF 2

- Bedding
- └ Cleavage
- └ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : EL 5/96
 PROSPECT : WHITE SPUR
 DATE :
 LOGGED BY :

HOLE DEPTH METER	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0-10					Volcanoclastic sandstone			CLC
10-21.8					Interbedded black siltstone and ashy siltstone			VOB
21.8-245.2					Interbedded ashy siltstone and f.g.v. volcanoclastic sandstone			VOB
245.2-264.9					M.g.v. volcanoclastic sandstone			VOB
264.9-279.2					M.g.v. volcanoclastic sandstone			VOB
279.2-385.3					M.g.v. feldspar phyric volcanoclastic sandstone (pumice breccia)			VOB

REMARKS

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

PROJECT : **EL 5196**
 PROSPECT : **WHITE SPUR**
 DATE : **OCT - NOV 1987**
 LOGGED BY : **M VICARY**

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLGY NOTES	FORMATIVE	ROCK	ALTERATION
				21.1-22.4 Rhyolitic breccia. Thinly of chert lithologies - massive, flow banded, starchy etc.	GYSS	IRK/B	
				22.4-31.0 Generally massive rhyolite. Some fairly developed flow banding and clastic textures	GYSS	IRK/	
				31.0-36.0 Abundant coarse grained rhyolite clasts in rhyolitic matrix. Clasts are preferentially chert altered.	GYSS	IRK/B	
				36.0-47.05 Generally massive rhyolite. Some flow banding and breccia horizons	GYSS	IRK/	

ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLGY NOTES	FORMATIVE	ROCK	ALTERATION
				0.08 (approx) Glacial Deposits	GYSS	TILL	
				08-67 Polygenic flow, mainly irregular shaped dark brown clasts. Some black siltstone (largest clast up to 10cm).	GYSS	VOLC	
				67-71 Black siltstone similar to massive at 0.8-6.7m but higher proportion of black chert in matrix	GYSS	VOLC	
				84-176 Predominantly thinly bedded black siltstone. Highly bedded or slumped?	GYSS	VOLC	
				176-181 irregular, shaly rhyolite clasts in black siltstone matrix	GYSS	SILT	
				181-211 massive to thinly bedded black siltstone.	GYSS	SILT	

REMARKS

REMARKS

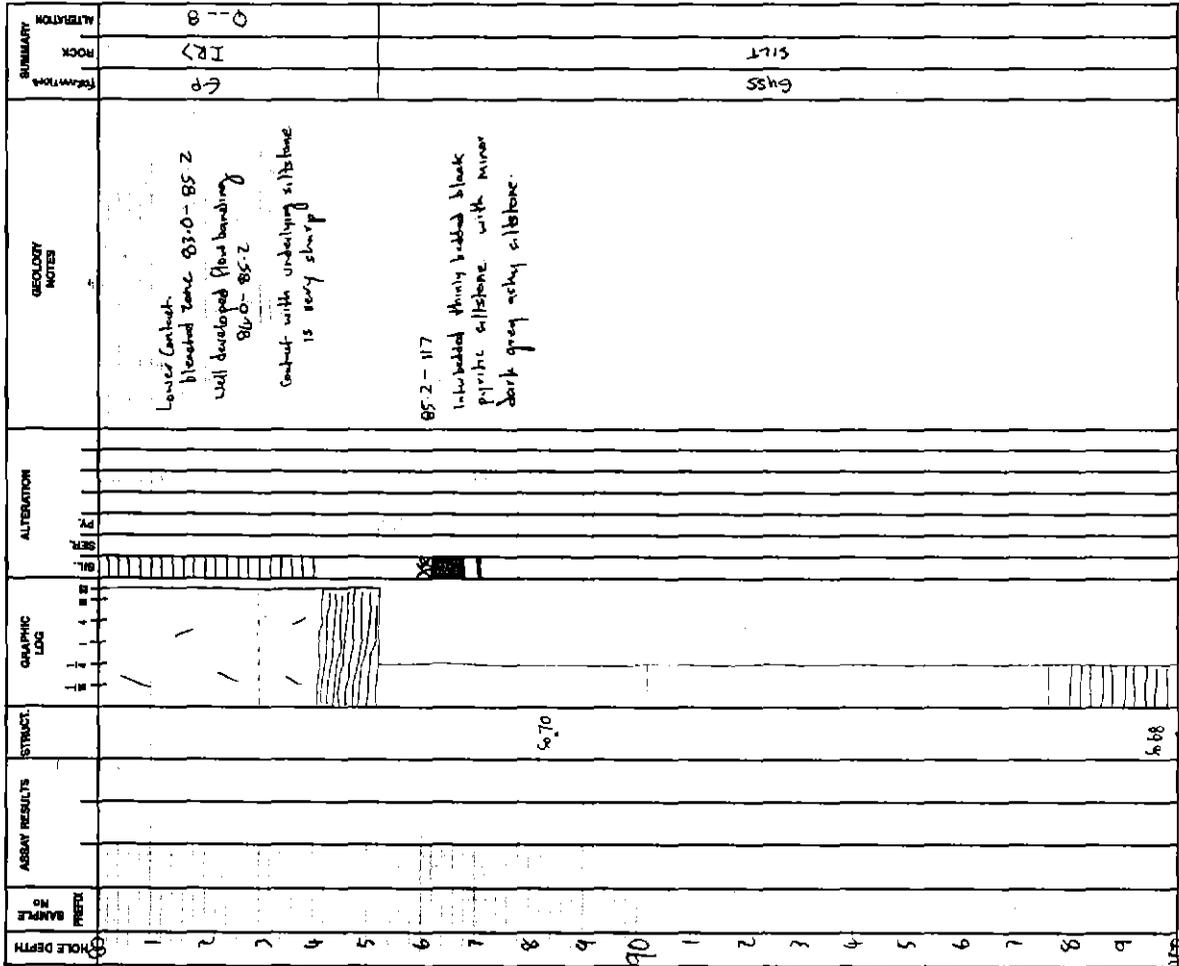
RGC EXPLORATION PTY LTD

DRILL HOLE No. **WSP8**

SHEET **5** OF **20**

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :



REMARKS
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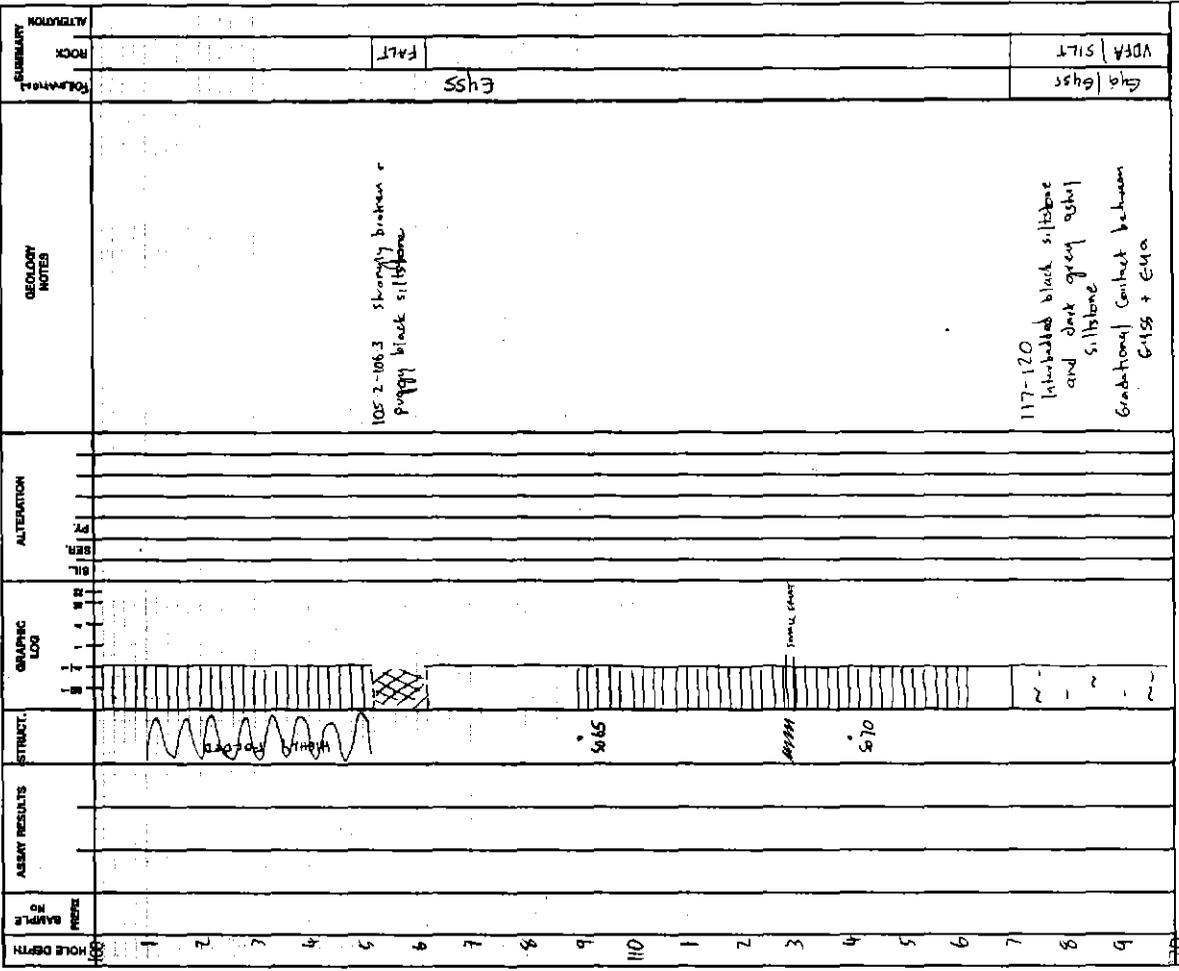
RGC EXPLORATION PTY LTD

DRILL HOLE No. **WSP8**

SHEET **6** OF **20**

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :



REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 7 OF 20

- Bedding
- Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0					Broken core			
1								
2					120-136c fine grained ashly siltstone lower contact gradational			
3								
4		S.80						
5								
6								
7								
8								
9								
130								
1								
2								
3								
4								
5								
6								
7		S.140			136-143.6 fine grained ashly etc sandstone			
8								
9								

REMARKS

427100

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 8 OF 20

- Bedding
- Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0								
1								
2								VDFE
3								
4								
5					143.6-148 ashy siltstone			
6								VDFE
7								
8								
9								
150								
1								
2								
3								
4								
5								
6								
7								
8								
9								
160								

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 9 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ┆ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH METERS	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							FORMATION	ROCK ALTERATION
0.0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
170								
1						170.3 - 177 Thinly laminated black (pink) siltstone		
2								
3								
4								
5								
6								
7								
8								
9								
100								
REMARKS								

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 10 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ┆ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH METERS	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							FORMATION	ROCK ALTERATION
0.0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
184.5						184.5 - 215.2 Predominantly black siltstone		
188						188 - 203.5 Zone of pyrochloite carbonate veining		
190								
1								
2								
3								
4								
5								
6								
7								
8								
9								
100								
REMARKS								

427191

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 11 OF 10

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
200								
1								
2								
3								
4								
5		So10						
6								
7								
8								
9		So10						
20								
1								
2								
3								
4								
5		So 5						
6					215 Z - 218 Z Klaproth (?) phytic volcanoclastic sandstone			
7								
8								
9					218 Z - 213 Z mixed sequence of interbedded black siltstone and ashy black-grey softstone			
220	REMARKS							

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 12 OF 10

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
240								
1								
2								
3								
4								
5								
6								
7								
8								
9								
230								
1								
2								
3								
4								
5								
6								
7								
8								
9								
240	REMARKS							

427102

becomes more ashy

voids
 matrix - R10 silt nodules in silty matrix
 matrix

233.5 - 236.7
 grey ashy siltstone, minor hydrothermal fracturing.

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 13 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH METER	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
		Cu	Pb	Zn					PRESENCE OF ROCK	ALTERATION		
0-280												
1												
2												
3												
4												
5												
6												
7												
8												
9												
280												
1	38	14	614	1059	13.7							
2	39	18	1089	1166	12.6							
3	41	14	638	908	14.4							
4	42	16	802	2250	12.6							
5	43	12	702	1558	10.4							
6	44	4	314	370	14.2							
7	45	13	261	527	13.6							
8	46	10	99	138	12.2							
9	47	16	123	216	13.6							
280	48	16	119	156	13.9							
REMARKS												

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 14 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH METER	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
		Cu	Pb	Zn					PRESENCE OF ROCK	ALTERATION		
0-280												
1												
2												
3												
4												
5												
6												
7												
8												
9												
270												
1	49	17	161	251	50.6 13.7							
2	50	15	305	560	12.4							
3	51	16	281	386	12.7							
4	52	10	86	131	12.5							
5	53	13	108	384	12.1							
6	54	172	2772	10500	25.2							
7	55	22	2728	5118	30.5							
8	56	36	877	4131	5.10 22.3							
9	57	6	42	51	12.1							
270												
1	58	6	17	27	9.9							
2	59	5	15	35	9.9 50.50							
3	61	6	13	50	10.3							
4	62	12	288	437	10.0							
5	63	11	1683	1897	10.0							
6	64	9	740	1028	10.2							
7	65	7	622	1537	10.4							
8	66	7	294	529	50 100 50.8							
9	67	6	13	42	9.8							
280												
1	68	10	10	40	11.3							
2	69	7	11	50	10.3							
REMARKS												

427193

265 - 267.8m 2.8m @ 0.7% Zn + 0.2% Pb

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 15 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
		Cu	Pb	Zn					PREF. (G/T)	ROCK	ALTERATION
70	11	42	130	11-2			279-2 - 283.0 Pebbly chL qtz - ser alteration. Some well developed pyrite textures				
71	4	16	26	10-7							
72	6	29	60	10-6							
73	6	68	113	10-0							
74	7	100	161	9-8							
75	2	23	77	9-6							
76	4	339	86	10-2							
77	4	20	56	10-7							
78	2	15	34	10-8							
79	2	9	31	11-3							
81	7	28	72	10-9							
82	11	124	302	10-6							
83	9	114	327	10-1							
84	7	67	111	10-5							
85	5	14	33	10-5							
86	24	158	653	10-7							
87	7	52	118	11-8							
88	9	62	137	4-2							
89	8	92	177	10-7							
90	8	25	81	11-0							

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 16 OF 20

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
		Cu	Pb	Zn					PREF. (G/T)	ROCK	ALTERATION
91	11	30	102	11-2							
92	11	7	46	11-3							
93	9	18	54	11-3							
94	8	106	171	11-4							

REMARKS

427194

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ┆ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						VEIN/TOR	ROCK	ALTERATION
20								
1								
2								
3								
4								
5								
6								
7								
8								
9								
370								
1								
2								
3								
4								
5								
6								
7								
8								
9								
700	REMARKS							

↑ veinlets best developed at margins of vein.

Low
VDFM
OA-b

427106

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ┆ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						VEIN/TOR	ROCK	ALTERATION
20								
1								
2								
3								
4								
5								
6								
7								
8								
9								
700	REMARKS							

ECH-385-3

probable breccia horizon

Low
VDFM
OA-b

WSP8 Drill hole assays

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	ZN_A	ZN_2A	AG_A	AG_N
1020038	WSP8	250	251	5360980.44	376951.95	360.06	14	NA	614	1059	NA	1	-5
1020039	WSP8	251	252	5360980.34	376952.59	359.31	18	NA	1089	1966	NA	2	-5
1020041	WSP8	252	253	5360980.25	376953.24	358.55	14	NA	638	908	NA	1	-5
1020042	WSP8	253	254	5360980.16	376953.88	357.79	16	NA	802	2250	NA	2	-5
1020043	WSP8	254	255	5360980.07	376954.53	357.03	12	NA	702	1558	NA	1	-5
1020044	WSP8	255	256	5360979.98	376955.18	356.28	4	NA	314	370	NA	-1	-5
1020045	WSP8	256	257	5360979.89	376955.83	355.52	13	NA	261	527	NA	-1	-5
1020046	WSP8	257	258	5360979.8	376956.48	354.77	10	NA	99	138	NA	-1	-5
1020047	WSP8	258	259	5360979.71	376957.13	354.02	16	NA	123	216	NA	1	-5
1020048	WSP8	259	260	5360979.62	376957.79	353.27	16	NA	119	156	NA	1	-5
1020049	WSP8	260	261	5360979.52	376958.44	352.51	17	NA	161	251	NA	1	-5
1020050	WSP8	261	262	5360979.43	376959.09	351.76	15	NA	305	560	NA	1	-5
1020051	WSP8	262	263	5360979.34	376959.75	351.01	16	NA	251	386	NA	-1	-5
1020052	WSP8	263	264	5360979.25	376960.4	350.26	10	NA	86	131	NA	-1	-5
1020053	WSP8	264	265	5360979.15	376961.06	349.51	13	NA	108	384	NA	-1	-5
1020054	WSP8	265	266	5360979.06	376961.72	348.77	42	NA	2772	10500	1.05	5	-5
1020055	WSP8	266	267	5360978.97	376962.38	348.02	22	NA	2728	5118	NA	3	-5
1020056	WSP8	267	267.8	5360978.89	376962.97	347.35	36	NA	877	4131	NA	-1	-5
1020057	WSP8	267.8	269	5360978.79	376963.63	346.6	6	NA	42	51	NA	1	-5
1020058	WSP8	269	270	5360978.69	376964.36	345.78	6	NA	17	27	NA	1	-5
1020059	WSP8	270	271	5360978.6	376965.02	345.04	5	NA	15	35	NA	-1	-5
1020061	WSP8	271	272	5360978.51	376965.68	344.3	6	NA	13	50	NA	1	-5
1020062	WSP8	272	273	5360978.41	376966.34	343.55	12	NA	288	437	NA	-1	-5
1020063	WSP8	273	274	5360978.31	376967.01	342.81	11	NA	1043	1897	NA	2	-5
1020064	WSP8	274	275	5360978.22	376967.67	342.07	9	NA	740	1028	NA	1	-5
1020065	WSP8	275	276	5360978.12	376968.33	341.33	7	NA	684	1537	NA	1	-5
1020066	WSP8	276	277	5360978.01	376969	340.59	7	NA	294	529	NA	1	-5
1020067	WSP8	277	278	5360977.91	376969.66	339.85	6	NA	13	42	NA	1	-5
1020068	WSP8	278	279	5360977.81	376970.33	339.11	10	NA	10	40	NA	1	-5
1020069	WSP8	279	280	5360977.7	376971	338.37	7	NA	11	50	NA	-1	-5
1020070	WSP8	280	281	5360977.59	376971.66	337.63	11	NA	42	130	NA	-1	-5
1020071	WSP8	281	282	5360977.48	376972.33	336.9	4	NA	16	20	NA	-1	-5
1020072	WSP8	282	283	5360977.37	376973	336.16	6	NA	29	60	NA	1	-5
1020073	WSP8	283	284	5360977.26	376973.66	335.42	6	NA	68	113	NA	1	-5
1020074	WSP8	284	285	5360977.15	376974.33	334.69	7	NA	100	161	NA	1	-5
1020075	WSP8	285	286	5360977.03	376975	333.95	2	NA	23	77	NA	-1	-5
1020076	WSP8	286	287	5360976.91	376975.67	333.22	4	NA	339	86	NA	1	-5
1020077	WSP8	287	288	5360976.79	376976.34	332.49	4	NA	20	56	NA	1	-5
1020078	WSP8	288	289	5360976.67	376977.01	331.75	2	NA	15	34	NA	1	-5

WSP8 Drill hole assays

wsp8sum.xls

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	ZN_A	ZN_2A	AG_A	AG_N
1020079	WSP8	289	290	5360976.55	376977.68	331.02	2	NA	9	31	NA	-1	-5
1020081	WSP8	290	291	5360976.42	376978.35	330.29	7	NA	28	72	NA	-1	-5
1020082	WSP8	291	292	5360976.3	376979.02	329.56	11	NA	124	302	NA	-1	-5
1020083	WSP8	292	293	5360976.17	376979.69	328.83	9	NA	114	327	NA	-1	-5
1020084	WSP8	293	294	5360976.04	376980.36	328.1	7	NA	67	111	NA	-1	-5
1020085	WSP8	294	295	5360975.91	376981.03	327.37	5	NA	14	33	NA	-1	-5
1020086	WSP8	295	296	5360975.77	376981.7	326.64	24	NA	158	653	NA	-1	-5
1020087	WSP8	296	297	5360975.64	376982.37	325.91	7	NA	52	118	NA	-1	-5
1020088	WSP8	297	298	5360975.5	376983.04	325.18	9	NA	62	137	NA	-1	-5
1020089	WSP8	298	299	5360975.37	376983.72	324.45	8	NA	92	177	NA	-1	-5
1020090	WSP8	299	300	5360975.23	376984.39	323.73	8	NA	25	81	NA	1	-5
1020091	WSP8	300	301	5360975.08	376985.06	323	11	NA	30	102	NA	1	-5
1020092	WSP8	301	302	5360974.94	376985.73	322.28	11	NA	7	46	NA	1	-5
1020093	WSP8	302	303	5360974.8	376986.41	321.55	9	NA	18	54	NA	1	-5
1020094	WSP8	303	304	5360974.65	376987.08	320.83	8	NA	106	171	NA	1	-5
							UNITS						
							DETECTION	ppm	%	ppm	ppm	%	ppm
							METHOD	2	0.01	3	2	0.01	1
							LABORATORY	A101	A103	A101	A101	A103	A101
								Analabs	Analabs	Analabs	Analabs	Analabs	Analabs
													N701
													Becquerel

WSP8 Drill hole assays

wsp8sum.xls

SAMPLE	AS_N	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N	FE_N	HF_N	IR_N
1020038	14	-5	1340	-1	1.3	156	6	34	7	1	2.01	5.5	-20
1020039	10	-5	756	-1	1.7	127	5	39	5	1.1	1.67	4.1	-20
1020041	13	-5	1210	-1	1.2	155	8	35	9	1.1	1.85	5.5	-20
1020042	11	-5	937	-1	1.8	138	6	40	7	1.5	1.77	4.7	-20
1020043	19	-5	1010	-1	1.7	136	7	67	6	1.5	1.89	6.8	-20
1020044	12	-5	1060	-1	1.4	149	8	58	8	1.5	2.15	6.4	-20
1020045	18	-5	1490	-1	2.1	141	8	60	7	1.7	2.54	6.8	-20
1020046	28	-5	1040	-1	1.7	143	10	68	9	1.6	3.92	8.9	-20
1020047	48	10	658	-1	2.1	130	10	107	6	1.5	2.61	6.8	-20
1020048	27	-5	884	-1	1.4	138	10	86	8	1	2.72	7.6	-20
1020049	21	-5	1020	-1	1.5	136	10	83	8	1.2	2.51	7.1	-20
1020050	21	-5	1050	-1	1.5	138	10	59	7	1.2	2.39	7.1	-20
1020051	23	-5	883	-1	1.2	150	9	62	8	1.5	2.57	7.8	-20
1020052	29	-5	1010	-1	1.6	144	10	71	8	1.7	2.77	7.8	-20
1020053	34	-5	1120	-1	1.9	158	9	46	11	1.7	3.24	8.5	-20
1020054	107	-5	922	-1	2.3	96	14	13	11	2.1	3.6	6.2	-20
1020055	346	-5	706	2	2.2	111	15	21	7	2.4	5.54	7.6	-20
1020056	502	-5	821	-1	3.2	170	14	11	9	2.7	4.03	6	-20
1020057	45	-5	1220	1	2.2	141	6	8	12	2.3	2.33	8.2	-20
1020058	18	-5	1250	-1	1.6	163	5	10	14	1.9	2.13	8.6	-20
1020059	25	-5	1120	-1	1.4	145	5	6	13	1.8	2.6	8.2	-20
1020061	18	-5	1120	-1	1.3	154	4	7	12	2.2	2.36	7.4	-20
1020062	21	-5	1170	-1	2.3	126	4	20	9	1.7	2.38	7	-20
1020063	642	-5	1030	1	2.3	122	6	15	5	1.7	2.08	5.5	-20
1020064	237	-5	1190	2	2.2	111	5	6	6	1.9	2.6	6.5	-20
1020065	49	-5	1180	-1	2.1	107	5	29	8	1.5	2.43	6.7	-20
1020066	15	-5	1540	2	1.8	139	4	10	16	2.2	2.78	7.9	-20
1020067	15	-5	1160	-1	1.5	134	5	8	12	1.8	2.38	7.8	-20
1020068	12	-5	443	-1	1.8	122	3	31	5	2.2	2.55	6.9	-20
1020069	11	-5	900	-1	1.1	138	4	12	4	1.8	2.64	7.3	-20
1020070	113	-5	380	1	1	116	4	13	2	1.8	2.83	6.6	-20
1020071	97	-5	907	-1	1.9	121	4	36	4	1.7	2.58	6.9	-20
1020072	24	-5	537	-1	3.4	107	3	19	2	1.6	1.99	5.8	-20
1020073	14	-5	760	-1	1.5	125	5	12	5	2.3	2.94	7.5	-20
1020074	21	-5	1880	2	2.6	121	4	26	10	1.6	2.45	6.6	-20
1020075	31	-5	1580	-1	2.5	125	4	13	9	1.9	2.59	6.8	-20
1020076	11	-5	1280	-1	2.4	117	3	12	6	1.9	2.48	6.2	-20
1020077	34	-5	1430	-1	2.8	120	4	24	8	1.9	2.59	6.7	-20
1020078	29	-5	1190	-1	2	114	4	14	6	1.8	2.37	6.3	-20

WSP8 Drill hole assays

wsp8sum.xls

SAMPLE	AS_N	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N	FE_N	HF_N	IR_N
1020079	6	-5	1010	-1	2.4	126	3	13	6	1.8	2.9	6.9	-20
1020081	9	-5	992	-1	2.4	139	4	31	7	2.7	2.92	8	-20
1020082	24	-5	1130	1	1.7	133	5	20	10	1.8	2.68	6.9	-20
1020083	24	-5	1130	2	2.9	152	6	14	9	2.8	2.8	7.1	-20
1020084	9	-5	1380	-1	2.3	142	6	29	12	2.3	3.06	7.9	-20
1020085	27	-5	1480	-1	2.2	156	4	11	11	2	3.13	8.3	-20
1020086	29	-5	1440	-1	1.6	158	5	8	11	2	3.38	8.2	-20
1020087	13	-5	679	-1	-1	78	6	37	8	1.6	3.34	8.3	-20
1020088	11	-5	1030	1	1.2	129	3	15	10	2.1	2.95	7.8	-20
1020089	48	-5	1100	-1	2	131	3	16	8	1.8	2.85	7	-20
1020090	88	-5	877	-1	2.1	129	5	32	6	2	2.53	6.4	-20
1020091	18	-5	941	2	1.6	110	4	20	4	1.8	2.25	5.5	-20
1020092	10	-5	892	-1	1.6	109	4	16	-1	1.5	2.1	5.5	-20
1020093	21	-5	905	-1	-1	121	4	35	1	1.5	2.79	6.6	-20
1020094	16	-5	638	1	1.3	113	4	21	2	1.7	2.37	6.4	-20
UNITS	ppm	ppb	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb
DETECTION	1	5	100	1	1	2	1	5	1	0.5	0.02	0.5	20
METHOD	N701												
LAB	Becquerel												

WSP8 Drill hole assays

wsp8sum.xls

SAMPLE	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N	TA_N	TE_N	TH_N
1020038	3.1	72.2	0.6	-5	1.52	165	4.1	6.3	-5	9.3	2	-5	39
1020039	1.5	58.3	0.4	-5	2.31	75	3.9	4.8	-5	7.4	2	-5	33.1
1020041	2.7	71.1	0.5	-5	1.52	135	3.7	6.3	-5	9.1	3	-5	40.3
1020042	1.8	63.7	0.5	-5	2.14	110	3.1	4.8	-5	8.3	3	-5	35.4
1020043	1.5	61.1	0.5	-5	2.71	95	3.4	7.5	-5	8.5	4	-5	31.1
1020044	2	67.8	0.5	-5	2.29	125	3.2	6.8	-5	9.3	2	-5	34.2
1020045	1.9	64.3	0.5	-5	2.38	100	4.8	7.1	-5	9	2	-5	32.7
1020046	2.3	64.6	0.6	-5	2.52	130	6.9	13.1	-5	11	2	-5	25.4
1020047	1.9	57.6	0.5	-5	2.28	95	10.2	9.4	-5	9.1	1	-5	25
1020048	2.3	63.8	0.5	-5	1.97	115	6.8	8.9	-5	9	2	-5	31.1
1020049	2.2	61.2	0.5	-5	2	130	3.5	8.8	-5	8.8	2	6	30.8
1020050	2.3	63.9	0.5	-5	1.45	165	3	7.3	-5	8.4	-1	-5	32.5
1020051	2.4	66.9	0.5	-5	1.89	145	2.6	8.2	-5	9.4	-1	-5	32.7
1020052	3.2	63.9	0.6	-5	1.9	150	3.7	9.7	-5	9.8	2	-5	28.6
1020053	3.6	71.2	0.6	-5	1.35	170	4.5	10.8	-5	11.4	-1	-5	27
1020054	2.7	43	0.5	-5	3.02	175	8.5	20.4	-5	9.6	2	-5	9.7
1020055	2.8	48.2	0.7	-5	3.71	130	11.7	22.4	-5	11.3	2	-5	9.6
1020056	2.4	77.1	0.5	-5	2.5	170	12.2	19.6	-5	15.4	-1	-5	9.6
1020057	4.6	64.1	0.7	-5	1.31	255	3.7	14	-5	10.6	2	-5	21.8
1020058	5.3	72.7	0.8	-5	0.62	285	3.2	13	-5	12.3	2	-5	26.5
1020059	4.4	64.9	0.8	-5	0.69	245	4.1	12.1	-5	10.9	-1	-5	23.6
1020061	4.2	68.1	0.7	-5	0.86	205	2.9	11.3	-5	11.6	2	-5	22.8
1020062	3.3	55.7	0.7	-5	1.28	170	3.2	10.5	-5	9.9	1	-5	21.4
1020063	1.8	54.1	0.6	-5	2.58	90	3	9	-5	9.5	-1	-5	18.5
1020064	2.3	48.3	0.6	-5	2.72	110	2.9	10	-5	8.9	-1	-5	20.2
1020065	1.4	47.1	0.6	-5	2.8	100	3	10	-5	8.7	-1	-5	20.8
1020066	4.5	61.6	0.8	-5	1.46	215	3.6	12.4	-5	11.1	2	-5	25.5
1020067	4	59.9	0.7	-5	1.81	220	2.2	12.1	-5	10.8	-1	-5	24.5
1020068	1.7	55.1	0.7	-5	3.79	70	1.5	10.8	-5	10.1	-1	-5	20.1
1020069	2.1	63.1	0.7	-5	3.65	100	1.3	11.3	-5	10.7	3	-5	23.4
1020070	0.9	49	0.6	-5	4.69	40	1	9.8	-5	9.4	-1	-5	20.3
1020071	0.8	54.4	0.6	-5	3.61	70	1.9	10	-5	9.8	-1	-5	20.6
1020072	1	48	0.7	-5	3.84	55	1	8.8	-5	8.6	-1	-5	17.4
1020073	1.8	53.3	0.7	-5	4.01	105	1.4	10.8	-5	10.4	1	6	22.3
1020074	2.2	52.9	0.6	-5	2.12	110	2.1	9.8	-5	9.7	-1	-5	20
1020075	2.5	55.2	0.7	-5	2.19	120	2.9	10.4	-5	10.2	-1	-5	21.1
1020076	1.4	51.3	0.6	-5	2.61	90	2.6	9.8	-5	9.4	-1	-5	19.6
1020077	2.9	53.1	0.6	-5	2.13	125	2.3	9.8	-5	9.4	-1	-5	19.9
1020078	1.7	50.2	0.6	-5	2.25	115	3	9.7	-5	9.1	2	-5	19.4

WSP8 Drill hole assays

wsp8sum.xls

SAMPLE	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N	TA_N	TE_N	TH_N
1020079	1.6	55.9	0.6	-5	2.79	115	2.8	10.2	-5	9.8	1	-5	20.3
1020081	1.8	62.6	0.7	-5	3.43	110	4.2	11.4	-5	11.2	2	-5	23.6
1020082	2	57.9	0.7	-5	2.07	170	5.6	10.9	-5	10.5	-1	-5	22.2
1020083	2.2	67.9	0.7	-5	2.28	175	5.7	10.8	-5	11.9	2	-5	22.3
1020084	4	63.3	0.8	-5	1.95	240	6.9	12.3	-5	11.4	1	-5	25
1020085	4.8	68.5	0.9	-5	1.93	265	12.4	13.1	-5	12.1	1	-5	26.1
1020086	5.1	69.2	0.8	-5	1.89	225	14.4	13.5	-5	12.3	-1	-5	26.8
1020087	2.2	33.2	0.6	-5	2.58	140	14.8	11.8	-5	6.5	2	-5	24.7
1020088	3	57.5	0.7	-5	1.89	175	15.1	12.1	-5	10.7	1	-5	23.7
1020089	3.4	57.7	0.7	-5	1.88	175	10.9	11.2	-5	10.4	1	-5	22.4
1020090	2.5	57.4	0.6	-5	2.91	110	6.1	10.2	-5	10	3	-5	21.1
1020091	1.3	50.7	0.5	-5	3.15	70	0.8	8.7	-5	8.3	1	-5	17.7
1020092	0.6	49	0.5	-5	4.23	25	0.5	8.3	-5	8.2	1	6	17
1020093	1.2	54.3	0.6	-5	4.33	-20	0.6	10	-5	9.6	-1	-5	20.1
1020094	1.1	50.2	0.6	-5	4.62	-20	0.8	9.6	-5	8.9	2	-5	19.5
UNITS	%	ppm	ppm	ppm	%	ppm							
DETECTION	0.2	0.5	0.2	5	0.01	20	0.2	0.1	5	0.2	1	5	0.5
METHOD	N701												
LAB	Becquerel												

427202

WSP8 Drill hole assays

wsp8sum.xls

SAMPLE	U_N	W_N	YB_N	ZN_N	ZR_N	ZR_X	TI_X	V_X
1020038	9	-2	3.7	1580	-500	143	1952	90
1020039	8	-2	2.9	1970	-500	127	1603	34
1020041	10	-2	3.7	964	-500	152	2184	46
1020042	8	-2	3.3	2180	-500	137	1727	35
1020043	9	-2	3.4	1850	-500	205	2137	43
1020044	9	-2	3.3	872	-500	194	2757	55
1020045	8	-2	3.7	629	-500	203	2755	52
1020046	9	-2	4.1	261	-500	308	3752	81
1020047	6	-2	3.4	263	-500	218	2965	71
1020048	8	-2	3.4	199	-500	218	3020	66
1020049	9	-2	3.4	283	-500	222	3041	68
1020050	9	-2	3.3	635	-500	215	2777	64
1020051	9	-2	3.4	421	-500	247	3132	66
1020052	11	-2	3.8	301	-500	246	3083	72
1020053	12	-2	4.1	534	-500	262	3170	78
1020054	16	-2	3.6	10700	-500	256	6445	67
1020055	19	-2	4.5	7610	-500	321	9776	67
1020056	14	-2	3.7	4200	-500	265	5909	47
1020057	8	-2	4.1	-100	-500	287	3482	53
1020058	10	-2	5	-100	-500	303	2987	41
1020059	7	-2	4.7	-100	-500	278	2746	39
1020061	5	-2	4.5	-100	-500	247	2545	34
1020062	6	-2	4.3	447	-500	236	2361	35
1020063	6	-2	3.7	1830	500	211	2115	34
1020064	7	-2	4	1090	-500	228	2317	37
1020065	7	-2	4	1630	-500	215	2233	38
1020066	8	-2	5.2	574	-500	286	2848	46
1020067	8	-2	4.9	-100	-500	265	2584	42
1020068	6	-2	4.3	-100	-500	229	2588	38
1020069	5	-2	4.7	-100	-500	255	2616	46
1020070	5	-2	3.8	170	-500	225	2525	41
1020071	4	-2	4.1	-100	-500	239	2549	40
1020072	4	-2	4.3	108	-500	190	2016	31
1020073	7	-2	4.4	156	-500	250	2511	49
1020074	7	-2	4	173	-500	221	2157	36
1020075	5	-2	4.3	300	-500	235	2266	41
1020076	6	-2	4.2	123	-500	222	2267	43
1020077	4	-2	4.3	-100	-500	213	2270	42
1020078	6	-2	4.1	-100	-500	228	2451	34

WSP8 Drill hole assays

wsp8sum.xls

SAMPLE	U_N	W_N	YB_N	ZN_N	ZR_N	ZR_X	TI_X	V_X
1020079	5	-2	4.3	103	-500	223	2520	35
1020081	6	-2	4.8	126	-500	223	2425	41
1020082	6	-2	4.7	378	-500	229	2424	43
1020083	5	-2	4.6	545	-500	215	2176	36
1020084	6	-2	5.2	146	-500	262	2761	45
1020085	6	-2	5.3	148	-500	252	2657	38
1020086	8	-2	5.3	801	-500	271	2898	49
1020087	8	-2	4	151	500	268	3155	43
1020088	6	-2	4.7	166	-500	259	2908	40
1020089	4	-2	4.8	232	-500	247	2632	41
1020090	5	-2	4.2	-100	-500	237	2626	37
1020091	4	-2	3.5	119	-500	201	2249	37
1020092	3	-2	3.4	-100	-500	188	2117	34
1020093	5	-2	3.9	-100	-500	227	2566	44
1020094	4	-2	3.7	216	-500	223	2538	46
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION	2	2	0.5	100	500	5	100	5
METHOD	N701	N701	N701	N701	N701	X401	X401	X401
LAB	Becquerel	Becquerel	Becquerel	Becquerel	Becquerel	Analabs	Analabs	Analabs

APPENDIX 7

**WSP9
Drill Log and Assays**

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	WSP9	DRILLED BY	Fred Ortner
PROJECT	White Spur	NORTHING	5360559.4
PROSPECT	White Spur	EASTING	377065.4
DESIGNED BY	M Vicary	RL	565
LOGGED BY	M Vicary	INCLINATION	-80
COMMENCED		AZIMUTH	056
FINISHED	12/12/97	EOH	508.0

PURPOSE

WSP9 was designed to test the White Spur Formation - Central Volcanic Sequence contact about 400m south of WSP5. The hole was planned to intersect the target horizon about 450m down hole.

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-80	056	184	-78	058	376	-76.75	062
34	-80	056	210	-77.8	058	427	-76.25	066
61	-79.25	056	241	-77.5	059	457	-77	066
90	-79.2	058	277	-76.8	061	487	-78	067
120	-78.8	057	316	-76.5	062			
151	-79	057	346	-76.25	061			

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	0 - 55.3	Hole cased with PVC
NQ	55.3 - 508.0	3m rod in bottom of hole

SUMMARY

Summary Log:-	
0 - 31.5	Mass flow
31.5 - 169.2	Rhyolite Intrusion
169.2 - 189.8	Black siltstone
189.8 - 197.0	Zone of quartz veining and tectonised siltstone
197.0 - 199.1	Siltstone and rhyolite breccia
199.1 - 207.8	Rhyolite intrusion
207.8 - 217.2	Black siltstone
217.2 - 226.5	Graded mass flows
226.5 - 355.0	Black siltstone
355.0 - 358.8	Fine - medium grained volcanoclastic sandstone
358.8 - 378.0	Ashy siltstone and fine grained sandstone
378.0 - 415.0	Feldspar rich volcanoclastic sandstone
415.0 - 420.1	Black siltstone
420.1 - 425.6	Medium grained volcanoclastic sandstone
425.6 - 442.4	Black siltstone
442.4 - 455.1	Interbedded black siltstone and medium grained volcanoclastic sandstone
455.1 - 459.0	Black Siltstone
459.0 - 476.0	Fine - medium grained volcanoclastic sandstone and rhyolite peperite.
476.0 - 508.0	Central Volcanic Sequence

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9 Summary

SHEET 2 OF 3

- Bedding
- ┌ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH METER	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
200						199-1-207-8	CP	322B	
210						207-8-217-2	C45S	SILT	
220						217-2-224-5	C45M	VDFM	
230						224-5-355-0			
240									
250									
260									
270									
280									
290									
300									
310									
320									
330									
340									
350						355-0-368-8	Cum		
360						368-8-378-0	C45	VDFM	
370									
380						378-0-397-7	C45	VDFM	
390									
400									

427300

SP-6

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9 Summary

SHEET 3 OF 3

- Bedding
- ┌ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH METER	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
400						400-404-0	C45S	VDFM	
410						404-0-415-0	C45S	SILT	
420						415-0-424-6	C45S	VDFM	
430						424-6-442-4	C45S	SILT	
440						442-4-455-1	C45S	VDFM	
450						455-1-459-0	C45S	SILT	
460						459-0-470-0	C45S	VDFM	
470						470-0-478-8	C45S	VDFM	
480						478-8-476-0	C45S	VDFM	
490						476-0-508-0	C45S	VDFM	
500									
510									

EDR-508-0m

RGS7

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

SHEET 1 OF 26

- Bedding
- └ Cleavage
- ~ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : WHITE SPUR ELS 196
 PROSPECT : WHITE SPUR
 DATE : NOV-DEC 1997
 LOGGED BY : M VICARY

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						TEXTURE	ROCK	ALTERATION
1					0-5.0m No Core Poor ground conditions			
2			No Core					
3								
4								
5								
6					5.0-10.5m Kfspar phytic pumiceous etc sst. Probably graded top (ashy at base of hole top is missing) to underlying mass flow breccia.		VDLM	L--B
7								
8								
9								
10								
11					10.5-13.2 as above but relative increase in sst pumice clasts up to 6cm.		VDLC	L--B
12								
13								
14					13.2-31.45 Polymineralic matrix supported mass flow breccia Clasts of qtz porphyry + black siltstone ralts up to 1m. Matrix is composed of fild sts, pumice and fine lithics.		VDLC	L--B
15								
16								
17								
18								
19								
20								
REMARKS								

SCALE 1:100

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

SHEET 2 OF 26

- Bedding
- └ Cleavage
- ~ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						TEXTURE	ROCK	ALTERATION
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
REMARKS								

31.45-48.8m
 clast supported monomictic
 qtz-kfspar phytic Rhyolite
 lava intrusion. Abundant
 curvilinear clasts suggesting
 quench fragmentation
 Clasts up to 10cm.
 A variety of clast types
 occur :- flow banded
 spherulitic
 massive
 + varying degrees of chl-sar
 alteration

Summary
 Eymf
 VDLC
 L--B
 CA
 IR>B
 CA-B

608707

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH METER	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG					ALTERATION			GEOLOGY NOTES	SUMMARY						
				1	2	3	4	5	BIL	SER.	PK.		ROCK	ALTERATION					
0																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
REMARKS																			

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH METER	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG					ALTERATION			GEOLOGY NOTES	SUMMARY						
				1	2	3	4	5	BIL	SER.	PK.		ROCK	ALTERATION					
0																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
REMARKS																			

103.5 - 128.8
 Relatively massive
 feld << qtz phylite schist

CP
 IRL-B
 IRL-7
 SA-8
 QA-8
 QA-7

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 7 OF 26

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 8 OF 26

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						COLLUMEN	ROCK	ALTERATION
0								
1								
2								
3								
4							IRL4	QA-7
5								
6								
7								
8								
9					128-8-134-8 Cauliflower shaped rhyolite clasts - possibly perlitic.			
10								
11								
12							IRL8	SA07
13								
14								
15					134-8-166-3 relatively massive. feld & qtz phyric. rhyolite with diffuse flow banding			
16								
17								
18								
19								QA-7
REMARKS								

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						COLLUMEN	ROCK	ALTERATION
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
REMARKS								

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREP	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
						FORMATION ROCK	ALTERATION
0							
1							
2							
3							
4							
5							
6							
7					166.3-169.2 Phyllite breccia	CP IRL	QA-7
8						IR-B	SA-B
9							
170		So 30			169.2-187.8 Predominantly diffusely bedded black siltstone. Pore cement // to So + a descrete fragments up to 1cm		
1							
2							
3							
4							
5		So 60				CySS	SILT
6							
7							
8							
9		So 65					
180							
REMARKS							

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREP	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION ROCK	ALTERATION	
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
190								
1					187.8-189.8 Predominantly black siltstone with matrix supported fine sand size fill? etc.			
2					189.8-190.4 Massive Qtz vein (minor chl) + carb			
3					190.4-193.8 Argon textured black siltstone, strongly cleaved hyaloclastic/papery phyllite lens br in SILT matrix			
4								
5					193.8-197.0 100% massive Qtz-(chl)-(carb) vein with 20% argon textured black siltstone			
6								
7								
8					197.0-199.1 interbedded black siltstone and Qtz phyllite breccia.			
9								
200								
REMARKS								

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ▨ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 11 OF 26

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FRAGMENT	ROCK	ALTERATION
200									
1						199.1 - 207.8			
2						Massive to brecciated porphyritic rhyolite			
3									
4							CP	IRLB	QS-8
5									
6									
7									
8									
9						207.8 - 217.2			
210						Predominantly black pyritic diffusely bedded siltstone			
1									
2						broken core			
3							E45F	SILT	
4									
5									
6									
7									
8									
9						217.2 - 226.5			
220						Intra-bedded graded volcanoclastic siltstone, sandstone and conglomerate. Maciflow deposits with coarse lithic rich base with rugged shaped debris + pebbles clasts	C4M	VBFM	NO. 7

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ▨ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 12 OF 26

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FRAGMENT	ROCK	ALTERATION
200									
1									
2									
3									
4									
5									
6									
7									
8									
9									
230									
1									
2									
3									
4									
5									
6									
7									
8									
9									
240									

REMARKS

457214

NO. 7

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

SHEET 13 OF 26

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FRAMING	ROCK	ALTERATION
240								
1								
2								
3								
4								
5		S ₄ -45						
6					245.0 - 262.1 Predominantly thinly bedded black siltstone. Minor horizon of grey ashly siltstone indicated			
7								
8								
9								
250		S ₄ -50						
1								
2								
3								
4								
5		S ₄ -45						
6								
7								
8								
9								
260		S ₄ -35						
REMARKS								

4078213

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

SHEET 14 OF 26

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FRAMING	ROCK	ALTERATION
260								
1								
2								
3								
4								
5								
6								
7								
8								
9								
270		S ₄ -25						
1								
2								
3								
4								
5		S ₄ -30						
6								
7								
8								
9								
280		S ₄ -30						
REMARKS								

262.1 - 266.0
Zone of broken strongly sheared
black siltstone with abundant
carbonate microworms.
Possible fault zone.

266.0 - 298.0
Predominantly black diffusely
bedded siltstone.

E155

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

SHEET 15 OF 26

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
280								
1								
2								
3								
4								
5		S ₁ 25						
6								
7								
8								
9								
290		S ₁ 25						
1								
2								
3								
4								
5								
6		S ₁ 25						
7								
8								
9								
300		S ₀ 30						
REMARKS								

407910

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

SHEET 16 OF 26

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
280								
1								
2								
3								
4								
5								
6		S ₀ 30						
7								
8								
9								
300								
REMARKS								

298-351 Z
 Predominantly thinly bedded
 black-dark grey siltstone
 with minor interbedded volcanoclastic
 sandstones. Becomes more ashgy
 towards the base.

S₁ 25
 S₁ 25

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

SHEET 17 OF 26

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH M	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							ROCK	ALTERATION
320								
1								
2								
3								
4								
5								
6				6.75				
7								
8								
9								
320				6.75				
1								
2								
3								
4								
5								
6				6.40				
7								
8								
9								
360								

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

SHEET 18 OF 26

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH M	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							ROCK	ALTERATION
330								
1								
2								
3								
4								
5								
6				6.65				
7								
8								
9								
350				6.65				
1								
2								
3								
4								
5								
6				6.50				
7								
8								
9								
360				6.40				

REMARKS

351.2 - 352.2 thin bedded black siltstone and silty ss

352.2 - 355.0
Thinly bedded black-grey (slightly ashy) siltstone

355.0 - 358.8
Interbedded black siltstone and fine-grained feldspar phyric calcareous sandstone

← Becomes more clay

↑ sandstone

CLAY	CLAY	CLAY	CLAY
SS	SS	SS	SS
SLT	SLT	SLT	SLT
SS	SS	SS	SS

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE No	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
		Cu	Pb	Zn					ROCK	ALTERATION
0.0	132	23	61	65	So 25					
1	133	26	109	534	13.1		297.7 - 402.6 fine gr. bedded feldspar phyric ash sandstone, well indurated bedded			
2	134	18	239	279	17.3					
3	135	17	253	210	14.6					
4	136	26	205	1280	13.9					
5	137	19	511	507	38.1		404.6 - 415.0 poorly bedded dark volcaniclastic sandstone			
6	138	14	260	630	19.0					
7	139	15	219	595	16.7					
8	140	13	257	1534	26.6					
9	141	11	132	305	21.5					
10	142	13	75	169	22.0					
1	143	14	182	54	20.7					
2	144	22	113	303	15.8		412.5 - 415.0 becomes more bedded and with black silty interbeds.			
3	145	19	71	210	16.9					
4	146	26	27	112	20.6					
5	147	21	63	77	7.3					
6	148	28	60	98	7.6					
7	149	41	69	54	16.0					
8	151	61	176	419	12.0					
9	152	68	77	196	16.0					

REMARKS
 107.0150 = STD M (0.50 g 13 Au)

- Bedding
- └ Cleavage
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- ~ Fault, Shear
- ⊞ Breccia
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- Massive
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- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE No	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
		Cu	Pb	Zn					ROCK	ALTERATION
0.0										
1					So - 60					
2										
3										
4										
5										
6										
7					So - 50					
8										
9										
10										
1										
2										
3										
4										
5										
6					So - 60					
7										
8										
9					So - 60					

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

SHEET 25 OF 26

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE No	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY				
		Cu	Pb	Zn			Ag	Au	Bi	As	Fe	Si	Ca		SO ₄	CO ₂	Other	Rock	Alteration
0.6	173	14	4	46	102														
1.2	174	10	-3	67	98														
1.8	176	12	-3	49	98														
2.4	177	13	-3	66	99														
3.0	178	10	-3	83	95														
4.0																			
5.0																			
6.0																			
7.0																			
8.0																			
9.0																			
10.0																			
11.0																			
12.0																			
13.0																			
14.0																			
15.0																			
16.0																			
17.0																			
18.0																			
19.0																			
20.0																			

REMARKS
 1020175 = 510 mv (0.580 g/t Au)

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9

SHEET 26 OF 26

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE No	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY				
		Cu	Pb	Zn			Ag	Au	Bi	As	Fe	Si	Ca		SO ₄	CO ₂	Other	Rock	Alteration
0.6																			
1.2																			
1.8																			
2.4																			
3.0																			
3.6																			
4.2																			
4.8																			
5.4																			
6.0																			
6.6																			
7.2																			
7.8																			
8.4																			
9.0																			
9.6																			
10.2																			
10.8																			
11.4																			
12.0																			
12.6																			
13.2																			
13.8																			
14.4																			
15.0																			
15.6																			
16.2																			
16.8																			
17.4																			
18.0																			
18.6																			
19.2																			
19.8																			
20.4																			
21.0																			
21.6																			
22.2																			
22.8																			
23.4																			
24.0																			
24.6																			
25.2																			
25.8																			
26.4																			
27.0																			
27.6																			
28.2																			
28.8																			
29.4																			
30.0																			

REMARKS

WSP9 Drill hole assays

wsp9assfinal.xls

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
1020096	WSP9	366	367	5360598.2	377129.4	206.4	22	NA	24	NA	61	NA	1
1020097	WSP9	367	368	5360598.3	377129.8	205.5	19	NA	28	NA	62	NA	1
1020098	WSP9	368	369	5360598.4	377129.8	204.5	18	NA	26	NA	50	NA	-1
1020099	WSP9	369	370	5360598.5	377130.0	203.5	21	NA	626	NA	3479	NA	1
1020101	WSP9	370	371	5360598.6	377130.2	202.5	20	NA	14	NA	47	NA	1
1020102	WSP9	371	372	5360598.7	377130.4	201.6	15	NA	17	NA	48	NA	-1
1020103	WSP9	372	373	5360598.8	377130.6	200.6	16	NA	17	NA	45	NA	-1
1020104	WSP9	373	374	5360598.9	377130.8	199.6	15	NA	26	NA	43	NA	-1
1020105	WSP9	374	375	5360599.0	377131.0	198.7	13	NA	48	NA	69	NA	-1
1020106	WSP9	375	376	5360599.1	377131.2	197.7	14	NA	32	NA	71	NA	-1
1020107	WSP9	376	377	5360599.3	377131.4	196.7	22	NA	49	NA	108	NA	-1
1020108	WSP9	377	378	5360599.4	377131.7	195.7	28	NA	152	NA	334	NA	-1
1020109	WSP9	378	379	5360599.5	377131.9	194.8	17	NA	89	NA	140	NA	-1
1020110	WSP9	379	380	5360599.6	377132.1	193.8	19	NA	119	NA	205	NA	-1
1020111	WSP9	380	381	5360599.7	377132.3	192.8	27	NA	106	NA	161	NA	-1
1020112	WSP9	381	382	5360599.8	377132.5	191.8	34	NA	198	NA	559	NA	-1
1020113	WSP9	382	383	5360599.9	377132.7	190.9	31	NA	1511	NA	3072	NA	1
1020114	WSP9	383	384	5360600.0	377132.9	189.9	30	NA	635	NA	1528	NA	1
1020115	WSP9	384	385	5360600.1	377133.1	188.9	19	NA	404	NA	1090	NA	-1
1020116	WSP9	385	386	5360600.2	377133.3	187.9	16	NA	103	NA	647	NA	-1
1020117	WSP9	386	387	5360600.3	377133.5	187.0	15	NA	77	NA	219	NA	-1
1020118	WSP9	387	388	5360600.4	377133.7	186.0	20	NA	97	NA	324	NA	-1
1020119	WSP9	388	389	5360600.5	377133.9	185.0	25	NA	403	NA	919	NA	-1
1020120	WSP9	389	390	5360600.6	377134.1	184.1	59	NA	998	NA	1433	NA	-1
1020121	WSP9	390	391	5360600.7	377134.3	183.1	38	NA	626	NA	801	NA	-1
1020122	WSP9	391	392	5360600.8	377134.5	182.1	32	NA	161	NA	258	NA	-1
1020123	WSP9	392	393	5360601.0	377134.7	181.1	30	NA	102	NA	98	NA	-1
1020124	WSP9	393	394	5360601.1	377134.9	180.2	106	NA	1375	NA	1075	NA	-1
1020126	WSP9	394	395	5360601.2	377135.1	179.2	49	NA	158	NA	96	NA	-1
1020127	WSP9	395	396	5360601.3	377135.3	178.2	67	NA	543	NA	500	NA	-1
1020128	WSP9	396	397	5360601.4	377135.6	177.2	45	NA	1142	NA	178	NA	-1
1020129	WSP9	397	397.7	5360601.5	377135.7	176.4	27	NA	389	NA	671	NA	-1
1020130	WSP9	397.7	399	5360601.6	377135.9	175.4	16	NA	76	NA	75	NA	-1
1020131	WSP9	399	400	5360601.7	377136.2	174.3	15	NA	33	NA	64	NA	-1
1020132	WSP9	400	401	5360601.8	377136.4	173.4	23	NA	41	NA	65	NA	-1

WSP9 Drill hole assays

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SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
1020133	WSP9	401	402	5360601.9	377136.6	172.4	26	NA	289	NA	534	NA	-1
1020134	WSP9	402	403	5360602.0	377136.8	171.4	18	NA	239	NA	279	NA	-1
1020135	WSP9	403	404	5360602.1	377137.0	170.4	17	NA	253	NA	210	NA	-1
1020136	WSP9	404	405	5360602.2	377137.2	169.5	26	NA	2015	NA	1280	NA	-1
1020137	WSP9	405	406	5360602.3	377137.4	168.5	19	NA	511	NA	507	NA	1
1020138	WSP9	406	407	5360602.4	377137.7	167.5	14	NA	260	NA	630	NA	1
1020139	WSP9	407	408	5360602.5	377137.9	166.6	15	NA	214	NA	595	NA	1
1020140	WSP9	408	409	5360602.6	377138.1	165.6	13	NA	257	NA	1531	NA	1
1020141	WSP9	409	410	5360602.7	377138.3	164.6	11	NA	132	NA	305	NA	1
1020142	WSP9	410	411	5360602.8	377138.5	163.6	13	NA	75	NA	169	NA	1
1020143	WSP9	411	412	5360602.9	377138.7	162.7	14	NA	182	NA	594	NA	1
1020144	WSP9	412	413	5360603.0	377138.9	161.7	22	NA	113	NA	303	NA	1
1020145	WSP9	413	414	5360603.1	377139.1	160.7	19	NA	71	NA	220	NA	1
1020146	WSP9	414	415	5360603.2	377139.4	159.7	26	NA	27	NA	112	NA	1
1020147	WSP9	415	416	5360603.3	377139.6	158.8	21	NA	43	NA	77	NA	1
1020148	WSP9	416	417	5360603.4	377139.8	157.8	28	NA	40	NA	98	NA	1
1020149	WSP9	417	418	5360603.5	377140.0	156.8	41	NA	49	NA	54	NA	1
1020151	WSP9	418	419	5360603.6	377140.2	155.9	61	NA	176	NA	419	NA	2
1020152	WSP9	419	420	5360603.7	377140.4	154.9	68	NA	77	NA	196	NA	2
1020153	WSP9	460	461	5360607.6	377149.1	115.0	20	NA	26	NA	86	NA	2
1020154	WSP9	461	462	5360607.7	377149.3	114.0	26	NA	27	NA	65	NA	2
1020155	WSP9	462	463	5360607.7	377149.5	113.1	17	NA	99	NA	104	NA	2
1020156	WSP9	463	464	5360607.8	377149.7	112.1	22	NA	255	NA	293	NA	2
1020157	WSP9	464	465	5360607.9	377149.9	111.1	18	NA	132	NA	190	NA	2
1020158	WSP9	465	466	5360608.0	377150.1	110.1	19	NA	104	NA	105	NA	2
1020159	WSP9	466	467	5360608.1	377150.3	109.2	16	NA	42	NA	112	NA	1
1020160	WSP9	467	468	5360608.2	377150.5	108.2	8	NA	21	NA	56	NA	2
1020161	WSP9	468	469	5360608.3	377150.7	107.2	8	NA	10	NA	53	NA	2
1020162	WSP9	469	470	5360608.4	377150.9	106.2	12	NA	3	NA	69	NA	1
1020163	WSP9	470	471	5360608.4	377151.1	105.2	15	NA	177	NA	178	NA	2
1020164	WSP9	471	472	5360608.5	377151.3	104.3	16	NA	35	NA	64	NA	1
1020165	WSP9	472	473	5360608.6	377151.5	103.3	19	NA	218	NA	291	NA	1
1020166	WSP9	473	474	5360608.7	377151.7	102.3	22	NA	340	NA	211	NA	2
1020167	WSP9	474	475	5360608.8	377151.9	101.3	13	NA	26	NA	41	NA	1
1020168	WSP9	475	476	5360608.9	377152.1	100.4	30	NA	320	NA	116	NA	4

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WSP9 Drill hole assays

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SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
1020169	WSP9	476	477	5360609.0	377152.3	99.4	10	NA	42	NA	53	NA	1
1020170	WSP9	477	478	5360609.0	377152.5	98.4	9	NA	8	NA	40	NA	1
1020171	WSP9	478	479	5360609.1	377152.7	97.4	27	NA	4	NA	37	NA	1
1020172	WSP9	479	480	5360609.2	377152.9	96.5	8	NA	49	NA	41	NA	1
1020173	WSP9	480	481	5360609.3	377153.1	95.5	14	NA	4	NA	46	NA	1
1020174	WSP9	481	482	5360609.4	377153.3	94.5	10	NA	-3	NA	47	NA	1
1020176	WSP9	482	483	5360609.5	377153.5	93.5	12	NA	-3	NA	49	NA	1
1020177	WSP9	483	484	5360609.5	377153.7	92.6	13	NA	-3	NA	46	NA	1
1020178	WSP9	484	485	5360609.6	377153.9	91.6	10	NA	-3	NA	43	NA	1

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
						Units	ppm	%	ppm	%	ppm	%	ppm
						Detection	4	0.01	5	0.01	4	0.01	2
						Method	GA101	GA104	GA101	GA104	GA101	GA104	GA101
						Laboratory	Analabs						

WSP9 Drill hole assays

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SAMPLE	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
1020096	-5	NA	11	NA	-5	360	-1	-1	144	5	96	5	1.1
1020097	-5	NA	10	NA	-5	425	-1	-1	139	6	27	3	1.1
1020098	-5	NA	9	NA	-5	412	-1	-1	140	6	78	5	1.2
1020099	-5	NA	32	NA	-5	625	-1	3.3	147	6	32	7	1.4
1020101	-5	NA	8	NA	-5	513	-1	1.1	139	6	164	3	1
1020102	-5	NA	10	NA	10	1050	-1	-1	152	6	47	5	1.3
1020103	-5	NA	11	NA	-5	759	-1	1	134	7	120	4	1.1
1020104	-5	NA	12	NA	-5	811	-1	-1	144	7	44	3	1.1
1020105	-5	NA	15	NA	-5	888	-1	1.4	142	6	44	4	1.5
1020106	-5	NA	15	NA	-5	560	-1	3.4	117	8	44	3	0.9
1020107	-5	NA	54	NA	-5	1180	-1	2.3	127	13	151	4	1.1
1020108	-5	NA	32	NA	-5	1240	1	1.7	137	12	108	7	1.6
1020109	-5	NA	45	NA	-5	808	-1	1.8	95	8	116	8	0.9
1020110	-5	NA	61	NA	-5	799	-1	2.3	118	7	47	8	1.6
1020111	-5	NA	56	NA	-5	931	-1	1.7	126	6	66	6	1.9
1020112	-5	NA	127	NA	-5	811	-1	2	102	8	20	7	1.9
1020113	-5	NA	3210	NA	-5	879	-1	3.3	68	7	44	8	2.2
1020114	-5	NA	8610	NA	-5	854	-1	4.1	42	12	23	7	2.2
1020115	-5	NA	147	NA	-5	934	-1	3.7	70	4	-5	6	2.3
1020116	-5	NA	45	NA	-5	982	-1	3	67	5	15	8	2.2
1020117	-5	NA	34	NA	-5	777	-1	3.3	71	6	6	9	2.7
1020118	-5	NA	131	NA	-5	889	1	2.8	80	6	32	8	2.4
1020119	-5	NA	228	NA	-5	853	1	3.6	79	5	10	6	2
1020120	-5	NA	67	NA	-5	946	-1	2	73	4	32	6	1.8
1020121	-5	NA	664	NA	-5	1040	2	2	83	7	10	7	1.9
1020122	-5	NA	452	NA	-5	723	2	2.5	72	5	68	7	1.5
1020123	-5	NA	342	NA	-5	807	2	2.2	72	5	9	8	1.4
1020124	-5	NA	614	NA	-5	1010	-1	2.4	102	6	47	9	2
1020126	-5	NA	257	NA	-5	750	-1	2.4	75	6	17	5	1.1
1020127	-5	NA	891	NA	-5	1170	2	2.4	100	7	85	9	2.3
1020128	-5	NA	568	NA	-5	964	1	3.3	81	5	12	10	1.7
1020129	-5	NA	198	NA	-5	1250	-1	2.9	62	6	40	10	1.5
1020130	-5	NA	35	NA	-5	798	-1	1.1	121	8	50	6	1.6
1020131	-5	NA	18	NA	-5	681	-1	1.4	96	8	140	7	1.1
1020132	-5	NA	25	NA	-5	739	-1	1.7	120	7	48	8	1.9

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SAMPLE	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
1020133	-5	NA	102	NA	-5	779	1	2.7	99	7	93	9	1.9
1020134	-5	NA	1120	NA	-5	673	2	1.9	111	9	30	12	2
1020135	-5	NA	40	NA	-5	850	-1	1.5	100	7	129	8	1.6
1020136	-5	NA	149	NA	-5	758	-1	2.7	103	8	31	8	2.1
1020137	-5	NA	61	NA	-5	937	-1	2.6	65	9	71	10	1.7
1020138	-5	NA	37	NA	-5	697	-1	3.4	67	5	7	14	1.9
1020139	-5	NA	50	NA	-5	837	-1	2.9	74	6	34	15	2.2
1020140	-5	NA	35	NA	-5	641	2	5.4	70	5	6	14	2.6
1020141	-5	NA	28	NA	-5	713	2	3.3	61	6	25	16	2.2
1020142	-5	NA	36	NA	-5	786	1	3.1	67	6	6	14	2
1020143	-5	NA	31	NA	-5	794	-1	3.3	77	7	43	15	2.6
1020144	-5	NA	48	NA	-5	918	-1	2.2	95	7	8	13	2.5
1020145	-5	NA	31	NA	-5	840	-1	2.4	81	4	69	9	2.6
1020146	-5	NA	43	NA	-5	1720	-1	1.9	115	3	18	10	2.4
1020147	-5	NA	22	NA	10	1900	2	1.3	125	5	61	10	1.7
1020148	-5	NA	53	NA	-5	1880	-1	1.9	137	4	14	10	1.5
1020149	-5	NA	42	NA	-5	1450	2	2.1	99	11	92	12	1.4
1020151	-5	NA	121	NA	-5	1360	1	1.8	113	15	76	12	1.5
1020152	-5	NA	106	NA	-5	687	-1	2.4	75	16	148	10	1.2
1020153	-5	NA	77	NA	10	1990	-1	2.4	128	8	11	8	1.9
1020154	-5	NA	67	NA	-5	2240	-1	2.7	167	10	59	9	2.2
1020155	-5	NA	272	NA	-5	2220	1	1.2	207	9	35	8	2.1
1020156	-5	NA	18	NA	-5	1940	1	1.6	204	10	58	8	2.2
1020157	-5	NA	15	NA	-5	2020	2	1.2	174	8	31	7	1.8
1020158	-5	NA	47	NA	-5	2690	1	1.4	160	7	29	9	1.8
1020159	-5	NA	101	NA	-5	2980	-1	2	127	8	6	13	2
1020160	-5	NA	61	NA	-5	2930	-1	1.7	139	4	25	11	1.7
1020161	-5	NA	58	NA	-5	3010	-1	1.2	168	5	-5	11	1.9
1020162	-5	NA	49	NA	-5	2400	-1	1.7	131	5	34	10	1.9
1020163	-5	NA	46	NA	-5	1670	-1	1.9	120	5	9	9	1.8
1020164	-5	NA	27	NA	-5	1420	-1	2.5	129	5	99	7	1.7
1020165	-5	NA	19	NA	-5	1140	-1	1.5	107	6	9	7	1.5
1020166	-5	NA	68	NA	-5	1130	1	2.7	105	6	109	9	1.4
1020167	-5	NA	10	NA	-5	1070	-1	1.2	125	3	11	5	1.6
1020168	-5	NA	27	NA	-5	828	-1	1.3	128	3	110	6	1.8

WSP9 Drill hole assays

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SAMPLE	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
1020169	-5	NA	7	NA	-5	330	-1	1	108	3	12	1	1.4
1020170	-5	NA	5	NA	-5	348	-1	-1	113	2	208	1	1.4
1020171	-5	NA	14	NA	-5	683	-1	2.1	113	4	7	4	1.4
1020172	-5	NA	112	NA	-5	620	2	1.5	104	3	143	4	1.2
1020173	-5	NA	61	NA	-5	564	-1	1.2	122	4	12	4	1.1
1020174	-5	NA	10	NA	-5	794	-1	1.3	151	4	146	4	1.7
1020176	-5	NA	22	NA	-5	489	2	1.3	142	4	16	1	2.1
1020177	-5	NA	9	NA	-5	713	-1	1.6	125	5	183	3	2
1020178	-5	NA	30	NA	-5	932	-1	1.4	139	5	11	2	2
	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection	5	1	1	0.008	5	100	2	1	2	1	5	1	0.5
Method	GN801	GA101	GN801	GG309	GN801								
Laboratory	Becquerel	Analabs	Becquerel	Analabs	Becquerel								

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WSP9 Drill hole assays

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SAMPLE	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
1020096	1.72	4.8	-20	1.6	64.8	0.5	-5	2.76	135	5.9	5.2	-5	8.4
1020097	1.8	4.9	-20	1	64.5	0.5	-5	3.39	80	7.1	4.8	-5	8.3
1020098	1.64	5.2	-20	1.4	63.7	0.5	-5	2.92	95	8.9	5.1	-5	8.2
1020099	1.99	5.7	-20	2.1	67.5	0.6	-5	1.92	140	9.1	5.3	-5	9
1020101	1.76	6.4	-20	0.6	62.9	0.4	-5	3.47	55	13.2	5.9	-5	8.6
1020102	1.95	6.4	-20	2.1	69	0.6	-5	2.74	135	14.8	6.3	-5	9.3
1020103	1.99	6	-20	1.5	61.2	0.5	-5	3.07	85	18.3	5.9	-5	8.4
1020104	2.07	6.5	-20	0.7	66.1	0.5	-5	3.4	75	18.3	6.2	-5	9.1
1020105	1.96	6.4	-20	1.5	65.3	0.5	-5	2.92	90	16.5	6	-5	8.9
1020106	2.26	6	-20	0.8	53.8	0.5	-5	3.07	55	10.4	5.9	-5	7.5
1020107	2.99	8.9	-20	1.6	56	0.5	-5	2.04	125	11.7	14	-5	9.4
1020108	3.4	9.3	-20	2.5	59.5	0.5	-5	1.84	145	6.7	12.3	-5	10.7
1020109	2.16	5.8	-20	2.1	44.2	0.4	-5	1.23	130	4.3	6.8	-5	6.7
1020110	2.29	6.4	-20	2.3	52.4	0.5	-5	1.39	140	4.4	7.8	-5	8.1
1020111	2.82	5.9	-20	2.1	55.2	0.5	-5	2.65	115	5.5	12.5	-5	10.6
1020112	3.27	5	-20	2.5	44.1	0.5	-5	2.53	130	5.9	15.5	-5	9
1020113	2.71	2.7	-20	2.6	29.2	0.3	-5	2.9	140	8.5	18.4	-5	6.7
1020114	3.4	1	-20	1.6	22.1	-0.2	-5	3.06	95	17.6	17.9	-5	5.6
1020115	2.21	3	-20	3.1	31.4	0.3	-5	3.28	155	5.2	16.3	-5	6.4
1020116	2.26	3.3	-20	3.3	30	0.4	-5	2.89	175	4.4	18	-5	6.4
1020117	2.37	3.8	-20	3	31.8	0.3	-5	2.45	155	4.9	16.8	-5	6.5
1020118	2.76	4.1	-20	3.2	35	0.3	-5	2.21	145	4.6	17.6	-5	7.1
1020119	2.39	3.3	-20	2.6	35.1	0.3	-5	2.7	150	4.8	16.2	-5	7.1
1020120	2.28	3	-20	2.7	33.1	0.3	-5	3.11	150	6.4	16.6	-5	6.6
1020121	2.32	3.9	-20	2.8	35.5	0.4	-5	2.45	165	7.4	17	-5	7
1020122	2.37	3.1	-20	2.1	32.6	0.3	-5	2.39	125	7.1	13.7	-5	6.7
1020123	2.3	3.3	-20	2.9	31.5	0.3	-5	2.77	125	6	14.9	-5	6.3
1020124	2.52	4.2	-20	2.8	46.1	0.4	-5	2.09	145	9.4	13.9	-5	8.6
1020126	2.45	3.6	-20	2.4	32.4	0.4	-5	2.52	125	10.4	10.5	-5	6.3
1020127	2.66	4.7	-20	3.3	45.4	0.5	-5	2.06	165	22.9	12.9	-5	8.8
1020128	3.06	3.5	-20	3.2	35.1	0.4	-5	0.94	160	27.1	13.2	-5	7.2
1020129	2.44	3.2	-20	3.8	28.5	0.4	-5	1.61	215	9.1	17.3	-5	5.9
1020130	2.29	6	-20	2.2	54.6	0.5	-5	1.51	125	6.4	7.5	-5	7.6
1020131	2.18	6	-20	1.8	43	0.5	-5	1.69	120	3.3	6.7	-5	6.2
1020132	2.56	6.7	-20	2	53.4	0.5	-5	1.62	120	5.6	8	-5	8.2

WSP9 Drill hole assays

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SAMPLE	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
1020133	2.98	5.8	-20	2.5	43.8	0.5	-5	1.59	130	18.8	11.2	-5	8.5
1020134	4.15	4.8	-20	1.9	51.3	0.4	-5	0.8	130	25.2	9.4	-5	7.7
1020135	2.41	6.5	-20	2	44.5	0.5	-5	1.7	120	7.5	8	-5	7
1020136	3.49	5.7	-20	2.4	45.5	0.5	-5	1.73	110	20.4	12.6	-5	8.8
1020137	3.22	3.5	-20	2.6	28.4	0.3	-5	3.01	125	15.1	20.8	-5	6.5
1020138	2.51	2.8	-20	3	31	0.3	-5	3.02	135	11.5	16.7	-5	6.2
1020139	2.4	3.4	-20	2.1	33.7	0.4	-5	3.44	115	8.2	17.3	-5	6.9
1020140	3.08	2.9	-20	2.7	32.1	0.3	-5	3.04	90	8	16	-5	6.7
1020141	2.7	3.2	-20	1.2	29.4	0.3	-5	3.69	105	4.2	19	-5	6.2
1020142	2.58	3.2	-20	1.8	30.1	0.3	-5	3.88	100	3.9	17.4	-5	6.6
1020143	2.41	4	-20	2	32.9	0.3	-5	3.23	130	4.3	18.3	-5	7
1020144	2.63	4.7	-20	2.2	42.1	0.4	-5	3.15	105	4.9	15.1	-5	8.1
1020145	2.44	3.2	-20	1.1	36.9	0.4	-5	3.92	55	5.5	15.5	-5	7.5
1020146	2.52	5.7	-20	2.6	52.4	0.6	-5	1.49	130	7.5	11.1	-5	9.7
1020147	2.33	6.4	-20	2.5	53.3	0.7	-5	0.15	155	8.4	9.7	-5	10.3
1020148	3.11	6.5	-20	3	59.7	0.7	-5	0.16	145	6.6	9.9	-5	11.5
1020149	4	5.2	-20	2.7	42.7	0.5	-5	0.2	140	11.6	12.5	-5	8.3
1020151	4.79	5.7	-20	2.6	50.4	0.7	-5	0.38	145	10	14.1	-5	9.3
1020152	4.99	3.4	-20	1.5	30.9	0.4	-5	0.84	80	7.3	13	-5	6.4
1020153	4.26	7.9	-20	2.9	55.4	0.7	-5	0.94	140	3.1	13.1	-5	10.8
1020154	3.79	6.9	-20	3.2	62.3	0.7	-5	1.53	125	2.5	14.7	-5	13.3
1020155	3.29	7	-20	2.4	72.1	0.7	-5	0.61	115	3.3	11	-5	14.2
1020156	3.49	6.4	-20	2	68.9	0.8	-5	0.71	100	4	10.6	-5	14.6
1020157	3.07	6.5	-20	2.3	65.5	0.7	-5	0.46	120	2.5	10.1	-5	12.2
1020158	3.28	7.4	-20	3.2	70.6	0.7	-5	0.36	140	3.8	10.1	-5	12.3
1020159	2.59	7.1	-20	3.7	58.5	0.6	-5	1.45	170	4.1	10.2	-5	10
1020160	2.2	7	-20	3.3	62.5	0.6	-5	0.88	185	3.9	6.2	-5	10.1
1020161	2.27	8.4	-20	4.4	74.7	0.8	-5	0.46	210	4.5	7	-5	12
1020162	2.29	7.2	-20	2.9	58.9	0.7	-5	0.97	170	4.2	8.7	-5	10
1020163	1.91	6.5	-20	2.7	52.5	0.6	-5	0.72	145	22.9	7.8	-5	8.9
1020164	2.65	6.6	-20	2.3	56.6	0.6	-5	1.53	145	14.1	9.9	-5	9.7
1020165	2.23	5.7	-20	2.6	47	0.5	-5	1.07	120	60.4	7.2	-5	7.5
1020166	1.67	6.5	-20	3.3	45.7	0.6	-5	1.26	135	107	8.8	-5	8.7
1020167	1.85	8	-20	2.5	55.2	0.7	-5	3.38	100	14.9	11.2	-5	9.9
1020168	1.3	7	-20	0.9	56.5	0.7	-5	3.04	115	80.1	9.9	-5	9.7

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SAMPLE	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
1020169	1.76	5.6	-20	0.6	47.5	0.6	-5	4.53	35	15.2	8.5	-5	8.7
1020170	1.94	6.5	-20	0.7	48.5	0.6	-5	4.63	40	1.5	9.2	-5	8.9
1020171	1.92	6.9	-20	1.8	50.8	0.7	-5	3.83	90	3.6	10	-5	9.7
1020172	1.65	6.8	-20	1.4	44.8	0.6	-5	3.93	75	3	9.9	-5	8.3
1020173	2.68	7.3	-20	1.2	54.2	0.7	-5	3.78	75	0.9	10.7	-5	10.5
1020174	2.73	7.4	-20	1.3	66.6	0.8	-5	4.12	90	1	11.6	-5	11.6
1020176	3.02	7.6	-20	0.7	63	0.7	-5	4.99	35	0.4	11.2	-5	11
1020177	2.73	6.7	-20	0.7	54.1	0.7	-5	4.23	60	0.7	10.5	-5	10.6
1020178	2.59	7	-20	0.8	59.5	0.7	-5	4.87	25	0.6	11.2	-5	11.2
	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
Units	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection	0.05	0.5	20	0.2	0.5	0.2	5	0.01	20	0.2	0.1	5	0.2
Method	GN801												
Laboratory	Becquerel												

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SAMPLE	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
1020096	3	-5	34.3	9	-2	3.2	-100	-500	NA	NA	NA	NA	NA
1020097	2	-5	34.8	8	-2	3.2	125	-500	NA	NA	NA	NA	NA
1020098	4	-5	34.5	9	-2	3.4	107	-500	NA	NA	NA	NA	NA
1020099	3	-5	36	9	-2	3.8	3320	-500	NA	NA	NA	NA	NA
1020101	5	-5	32.5	9	-2	3.1	-100	-500	NA	NA	NA	NA	NA
1020102	4	-5	37	9	-2	3.6	-100	-500	NA	NA	NA	NA	NA
1020103	2	-5	35.6	10	-2	3.4	-100	-500	NA	NA	NA	NA	NA
1020104	2	-5	34.5	9	-2	3.4	-100	-500	NA	NA	NA	NA	NA
1020105	2	-5	32.9	9	-2	3.5	-100	-500	NA	NA	NA	NA	NA
1020106	3	-5	30.7	9	-2	3.2	101	-500	NA	NA	NA	NA	NA
1020107	2	-5	24.2	10	-2	3.4	139	-500	NA	NA	NA	NA	NA
1020108	-1	-5	21.2	10	-2	3.6	352	600	NA	NA	NA	NA	NA
1020109	3	-5	26.9	8	-2	2.9	186	-500	NA	NA	NA	NA	NA
1020110	3	-5	24.7	8	-2	3.2	224	-500	NA	NA	NA	NA	NA
1020111	2	-5	13.7	12	-2	3.8	212	-500	NA	NA	NA	NA	NA
1020112	2	-5	11.8	11	-2	3.3	569	-500	NA	NA	NA	NA	NA
1020113	-1	-5	4	7	-2	2	2720	-500	NA	NA	NA	NA	NA
1020114	-1	-5	5.3	-2	-2	1.2	1500	-500	NA	NA	NA	NA	NA
1020115	-1	-5	3.9	8	-2	2.1	1020	-500	NA	NA	NA	NA	NA
1020116	3	-5	5.2	9	-2	2.3	667	-500	NA	NA	NA	NA	NA
1020117	-1	-5	5.7	7	-2	2.1	252	-500	NA	NA	NA	NA	NA
1020118	1	-5	6.7	8	-2	2.4	357	-500	NA	NA	NA	NA	NA
1020119	2	-5	5.3	7	-2	2	809	-500	NA	NA	NA	NA	NA
1020120	2	-5	5.9	6	-2	2.1	1280	-500	NA	NA	NA	NA	NA
1020121	2	-5	7.8	11	-2	2.3	670	-500	NA	NA	NA	NA	NA
1020122	-1	-5	6	11	-2	2	242	-500	NA	NA	NA	NA	NA
1020123	2	-5	6.8	9	-2	2.1	131	-500	NA	NA	NA	NA	NA
1020124	-1	-5	9.3	15	-2	2.7	938	-500	NA	NA	NA	NA	NA
1020126	-1	-5	7.4	13	-2	2.3	118	-500	NA	NA	NA	NA	NA
1020127	1	-5	10.9	15	-2	3.1	547	-500	NA	NA	NA	NA	NA
1020128	2	-5	7.6	9	-2	2.6	201	-500	NA	NA	NA	NA	NA
1020129	-1	-5	5.9	8	-2	2.2	650	-500	NA	NA	NA	NA	NA
1020130	-1	-5	27.6	10	-2	3.1	103	-500	NA	NA	NA	NA	NA
1020131	-1	-5	25.7	9	3	2.8	-100	-500	NA	NA	NA	NA	NA
1020132	-1	-5	24.4	10	-2	3.1	-100	-500	NA	NA	NA	NA	NA

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SAMPLE	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
1020133	2	-5	14.2	9	-2	3.2	566	-500	NA	NA	NA	NA	NA
1020134	-1	-5	19.3	8	-2	2.9	286	-500	NA	NA	NA	NA	NA
1020135	2	-5	24.6	8	-2	3	222	-500	NA	NA	NA	NA	NA
1020136	-1	-5	11.5	10	-2	3.3	1140	-500	NA	NA	NA	NA	NA
1020137	1	-5	4.5	7	-2	2.2	588	-500	NA	NA	NA	NA	NA
1020138	1	-5	5.3	8	-2	2.1	644	-500	NA	NA	NA	NA	NA
1020139	-1	-5	7.1	12	-2	2.6	610	-500	NA	NA	NA	NA	NA
1020140	-1	-5	4.7	9	-2	2.5	1490	-500	NA	NA	NA	NA	NA
1020141	2	-5	5.7	9	-2	2.3	362	-500	NA	NA	NA	NA	NA
1020142	-1	-5	4.8	8	-2	2.2	190	-500	NA	NA	NA	NA	NA
1020143	-1	-5	6.9	8	-2	2.5	640	-500	NA	NA	NA	NA	NA
1020144	2	-5	10	10	-2	2.8	329	-500	NA	NA	NA	NA	NA
1020145	-1	-5	7	12	-2	2.6	325	-500	NA	NA	NA	NA	NA
1020146	-1	-5	15.7	12	-2	3.6	115	-500	NA	NA	NA	NA	NA
1020147	-1	-5	20.5	7	-2	4.5	-100	-500	NA	NA	NA	NA	NA
1020148	1	-5	19.7	7	-2	4.4	-100	-500	NA	NA	NA	NA	NA
1020149	-1	-5	16.5	6	-2	3.7	-100	-500	NA	NA	NA	NA	NA
1020151	1	-5	20.6	7	-2	4.3	473	-500	NA	NA	NA	NA	NA
1020152	-1	-5	10.7	3	-2	2.7	190	-500	NA	NA	NA	NA	NA
1020153	2	-5	19.4	11	-2	4.5	107	-500	NA	NA	NA	NA	NA
1020154	2	-5	21.9	11	-2	5	-100	-500	NA	NA	NA	NA	NA
1020155	1	-5	30.8	10	-2	5	143	-500	NA	NA	NA	NA	NA
1020156	1	-5	27.6	8	-2	5.2	328	-500	NA	NA	NA	NA	NA
1020157	2	-5	29.4	8	-2	4.7	192	-500	NA	NA	NA	NA	NA
1020158	2	-5	27.6	12	-2	4.3	122	-500	NA	NA	NA	NA	NA
1020159	2	-5	22	12	-2	3.7	145	-500	NA	NA	NA	NA	NA
1020160	1	-5	25.3	11	-2	4.1	-100	-500	NA	NA	NA	NA	NA
1020161	2	-5	31	13	-2	5.2	-100	-500	NA	NA	NA	NA	NA
1020162	-1	-5	24.7	11	-2	4.6	-100	-500	NA	NA	NA	NA	NA
1020163	1	-5	22.1	10	-2	3.8	196	-500	NA	NA	NA	NA	NA
1020164	2	-5	22.9	9	-2	4	-100	-500	NA	NA	NA	NA	NA
1020165	1	-5	19.2	6	-2	3.6	323	-500	NA	NA	NA	NA	NA
1020166	1	-5	20.9	8	-2	4	251	-500	NA	NA	NA	NA	NA
1020167	2	-5	23.6	9	-2	4.4	-100	-500	NA	NA	NA	NA	NA
1020168	3	-5	21.5	6	-2	3.9	134	-500	NA	NA	NA	NA	NA

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SAMPLE	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
1020169	1	-5	18.1	5	-2	3.6	-100	-500	NA	NA	NA	NA	NA
1020170	1	-5	19.6	5	-2	3.7	-100	-500	NA	NA	NA	NA	NA
1020171	1	-5	19.9	5	-2	4.3	-100	-500	NA	NA	NA	NA	NA
1020172	1	-5	21.1	6	-2	3.8	-100	-500	NA	NA	NA	NA	NA
1020173	-1	-5	22.5	6	-2	4.1	-100	-500	NA	NA	NA	NA	NA
1020174	2	-5	23.3	6	-2	4.9	-100	-500	NA	NA	NA	NA	NA
1020176	1	-5	22.1	7	-2	4.3	-100	-500	NA	NA	NA	NA	NA
1020177	1	-5	21.6	6	-2	4.4	-100	-500	NA	NA	NA	NA	NA
1020178	3	-5	21.9	7	-2	4.3	101	-500	NA	NA	NA	NA	NA
	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
Units	ppm	%	%	%	%	%							
Detection	1	5	0.5	2	2	0.2	100	500	0.05	0.01	0.05	0.01	0.01
Method	GN801	X408	X408	X408	X408	X408							
Laboratory	Becquerel	Analabs	Analabs	Analabs	Analabs	Analabs							

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SAMPLE	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
1020096	NA	NA	NA	NA	NA	NA	NA	NA	142	1907	35	202
1020097	NA	NA	NA	NA	NA	NA	NA	NA	135	1806	33	168
1020098	NA	NA	NA	NA	NA	NA	NA	NA	149	1817	37	173
1020099	NA	NA	NA	NA	NA	NA	NA	NA	190	1866	34	221
1020101	NA	NA	NA	NA	NA	NA	NA	NA	188	2138	39	249
1020102	NA	NA	NA	NA	NA	NA	NA	NA	206	2384	42	266
1020103	NA	NA	NA	NA	NA	NA	NA	NA	182	2500	43	271
1020104	NA	NA	NA	NA	NA	NA	NA	NA	199	2605	51	319
1020105	NA	NA	NA	NA	NA	NA	NA	NA	203	2556	50	338
1020106	NA	NA	NA	NA	NA	NA	NA	NA	191	2547	48	345
1020107	NA	NA	NA	NA	NA	NA	NA	NA	308	4127	92	651
1020108	NA	NA	NA	NA	NA	NA	NA	NA	339	3995	92	663
1020109	NA	NA	NA	NA	NA	NA	NA	NA	202	2606	56	381
1020110	NA	NA	NA	NA	NA	NA	NA	NA	220	2772	65	336
1020111	NA	NA	NA	NA	NA	NA	NA	NA	232	3340	90	680
1020112	NA	NA	NA	NA	NA	NA	NA	NA	227	3709	84	843
1020113	NA	NA	NA	NA	NA	NA	NA	NA	138	3917	42	861
1020114	NA	NA	NA	NA	NA	NA	NA	NA	138	3467	49	811
1020115	NA	NA	NA	NA	NA	NA	NA	NA	118	2337	50	697
1020116	NA	NA	NA	NA	NA	NA	NA	NA	133	2444	58	665
1020117	NA	NA	NA	NA	NA	NA	NA	NA	140	2781	60	679
1020118	NA	NA	NA	NA	NA	NA	NA	NA	165	3395	82	696
1020119	NA	NA	NA	NA	NA	NA	NA	NA	132	2585	48	686
1020120	NA	NA	NA	NA	NA	NA	NA	NA	145	3274	54	770
1020121	NA	NA	NA	NA	NA	NA	NA	NA	165	2697	56	715
1020122	NA	NA	NA	NA	NA	NA	NA	NA	146	2440	70	739
1020123	NA	NA	NA	NA	NA	NA	NA	NA	152	2481	56	696
1020124	NA	NA	NA	NA	NA	NA	NA	NA	176	2471	81	637
1020126	NA	NA	NA	NA	NA	NA	NA	NA	152	2276	89	566
1020127	NA	NA	NA	NA	NA	NA	NA	NA	184	2544	104	563
1020128	NA	NA	NA	NA	NA	NA	NA	NA	157	3034	74	526
1020129	NA	NA	NA	NA	NA	NA	NA	NA	151	3108	64	629
1020130	NA	NA	NA	NA	NA	NA	NA	NA	216	2838	59	385
1020131	NA	NA	NA	NA	NA	NA	NA	NA	197	2508	56	386
1020132	NA	NA	NA	NA	NA	NA	NA	NA	251	2879	67	476

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SAMPLE	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
1020133	NA	NA	NA	NA	NA	NA	NA	NA	226	2962	79	617
1020134	NA	NA	NA	NA	NA	NA	NA	NA	201	3482	57	492
1020135	NA	NA	NA	NA	NA	NA	NA	NA	246	2863	75	474
1020136	NA	NA	NA	NA	NA	NA	NA	NA	232	3229	68	719
1020137	NA	NA	NA	NA	NA	NA	NA	NA	153	5828	67	910
1020138	NA	NA	NA	NA	NA	NA	NA	NA	130	2466	47	692
1020139	NA	NA	NA	NA	NA	NA	NA	NA	147	2457	54	742
1020140	NA	NA	NA	NA	NA	NA	NA	NA	123	3277	45	759
1020141	NA	NA	NA	NA	NA	NA	NA	NA	148	3329	58	835
1020142	NA	NA	NA	NA	NA	NA	NA	NA	138	3037	64	800
1020143	NA	NA	NA	NA	NA	NA	NA	NA	162	3348	71	837
1020144	NA	NA	NA	NA	NA	NA	NA	NA	185	2916	82	733
1020145	NA	NA	NA	NA	NA	NA	NA	NA	155	2617	57	854
1020146	NA	NA	NA	NA	NA	NA	NA	NA	233	2481	143	431
1020147	NA	NA	NA	NA	NA	NA	NA	NA	207	1512	67	255
1020148	NA	NA	NA	NA	NA	NA	NA	NA	214	1624	62	354
1020149	NA	NA	NA	NA	NA	NA	NA	NA	184	2942	149	598
1020151	NA	NA	NA	NA	NA	NA	NA	NA	209	3348	125	637
1020152	NA	NA	NA	NA	NA	NA	NA	NA	125	3128	123	892
1020153	NA	NA	NA	NA	NA	NA	NA	NA	252	2492	44	515
1020154	NA	NA	NA	NA	NA	NA	NA	NA	219	2605	53	797
1020155	NA	NA	NA	NA	NA	NA	NA	NA	202	2388	59	1100
1020156	NA	NA	NA	NA	NA	NA	NA	NA	186	2228	60	1963
1020157	NA	NA	NA	NA	NA	NA	NA	NA	204	2333	55	1186
1020158	NA	NA	NA	NA	NA	NA	NA	NA	235	2443	54	1371
1020159	NA	NA	NA	NA	NA	NA	NA	NA	241	2320	46	485
1020160	NA	NA	NA	NA	NA	NA	NA	NA	250	1885	14	299
1020161	NA	NA	NA	NA	NA	NA	NA	NA	283	2129	18	257
1020162	NA	NA	NA	NA	NA	NA	NA	NA	244	2357	26	298
1020163	NA	NA	NA	NA	NA	NA	NA	NA	219	2156	31	293
1020164	NA	NA	NA	NA	NA	NA	NA	NA	213	2255	31	425
1020165	NA	NA	NA	NA	NA	NA	NA	NA	184	1973	29	273
1020166	NA	NA	NA	NA	NA	NA	NA	NA	202	2120	29	297
1020167	NA	NA	NA	NA	NA	NA	NA	NA	263	2685	35	266
1020168	NA	NA	NA	NA	NA	NA	NA	NA	251	2395	33	257

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SAMPLE	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
1020169	NA	211	2271	24	304							
1020170	NA	226	2193	31	298							
1020171	NA	238	2420	39	410							
1020172	NA	237	2332	37	362							
1020173	NA	251	2561	44	518							
1020174	NA	251	2472	46	607							
1020176	NA	245	2408	51	595							
1020177	NA	227	2242	36	535							
1020178	NA	242	2298	40	539							
	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
Units	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm
Detection	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	5	50	5	30
Method	X408	GX401	GX401	GX401	X401							
Laboratory	Analabs											

APPENDIX 8
WSP10
Drill Log and Assays

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	WSP10	DRILLED BY	Fred Ortnier
PROJECT	White Spur	NORTHING	5360781.59
PROSPECT		EASTING	376853.21
DESIGNED BY	M Vicary	RL	585
LOGGED BY	A Elliston	INCLINATION	-87
COMMENCED	January 1998	AZIMUTH	050 mag / 062 AMG
FINISHED	February 1998	EOH	384.4

PURPOSE

To test the White Spur Formation - Central Volcanic Sequence contact between 400 and 500 m down dip of the WSP5 intersection. The target horizon should be intersected at about 745m.

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-87	062	154	-87.25	070	305	-88.25	084.5
31	-86.5	066	184	-87.75	077	334	-88.0	067
64	-86.5	068	215	-87.0	082	350	-88.0	082
94	-86.5	073	245	-88.75	079	365	-88.0	070
124	-87.25	070.5	275	-88.0	076	380	-89.5	122

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	0 - 155.5	
NQ	155.5 - 384.4	

SUMMARY

Summary Log:-	
0 - 200.5	Rhyolite Intrusive (Cp)
200.5 - 301.9	Black siltstone (Cyss)
301.9 - 309.9	Feldspar phyric volcanoclastic sandstone (Cym)
309.9 - 316.8	Black siltstone (Cyss)
316.8 - 321.3	Feldspar phyric volcanoclastic sandstone (Cym)
321.3 - 325.3	Black siltstone (Cyss)
325.3 - 329.5	Feldspar phyric volcanoclastic sandstone (Cym)
329.5 - 354.0	Black siltstone (Cyss)
354.0 - 370.8	Graded feldspar phyric volcanoclastic sandstone (Cym/Cya)
370.8 - 384.4	Graded feldspar phyric volcanoclastic sandstone (Cym/Cya)
Due to variation in the lift of the hole WSP10 was stopped at 384.4 and a wedge (WSP10A) positioned at 298m. See the WSP10A drill hole record for more details.	

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	WSP10A (Wedge)	DRILLED BY	Fred Ortner
PROJECT	White Spur	NORTHING	5360781.59
PROSPECT		EASTING	376853.21
DESIGNED BY	M Vicary	RL	585
LOGGED BY	A Elliston	INCLINATION	-87
COMMENCED	February 1998	AZIMUTH	050 mag / 062 AMG
FINISHED	18 March 1998	EOH	626.6

PURPOSE

Due variations in the dip of WSP10 a wedge was positioned at 298.0m with the aim of lifting the hole.

SURVEY DATA - For surveys 0 to 298m see WSP10 drill hole record

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
310	-83.0	089	394	-80.25	073	515.2	-81.0	081
322	-81.0	072	424	-80.0	075	548	-81.0	080
335	-80.25	069	454	-80.0	079	578	-81.75	084.5
364	-80	076	484	-80.0	080	608	-82.0	087

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	0 - 155.5	Pilot Hole (WSP10)
NQ	155.5 - 298	Pilot Hole (WSP10)
Hall - Rowe Wedge	298	To lift hole (gained 5 ⁰ first 15m)
NQ	298 - 626.6	Hole cased with PVC

SUMMARY

Summary Log:-	
0 - 298.0	see WSP10 drill hole record
298.0 - 304.9	Black Siltstone (Cyss)
304.9 - 312.0	Feldspar phyrlic volcanoclastic sandstone (Cym)
312.0 - 319.6	Black Siltstone (Cyss)
319.6 - 324.1	Feldspar phyrlic volcanoclastic sandstone (Cym)
324.1 - 329.6	Black Siltstone (Cyss)
329.6 - 333.3	Feldspar phyrlic volcanoclastic sandstone (Cym)
333.3 - 361.3	Graded feldspar phyrlic volcanoclastic sandstone (Cym/Cya)
361.3 - 383.8	Graded feldspar phyrlic volcanoclastic sandstone (Cym/Cya)
383.8 - 396.0	Interbedded volcanoclastic sandstone and ashy siltstone (Cym/Cya)
396.0 - 400.0	Interbedded volcanoclastic sandstone and ashy siltstone (Cym/Cya)
400.0 - 412.1	Interbedded volcanoclastic sandstone and black siltstone (Cym/Cyss)
412.1 - 430.0	Black Siltstone (Cyss)
430.0 - 433.5	Interbedded volcanoclastic sandstone and black siltstone (Cym/Cyss)
433.5 - 437.8	Black Siltstone (Cyss)
437.8 - 444.1	Interbedded volcanoclastic sandstone, ashy siltstone, black siltstone and probable feldspar-quartz? phyrlic peperitic rhyolite (Ccv/Ccvs/Cyss/Cp)
441.1 - 460.0	Undifferentiated Central Volcanic Sequence - weak sericite alteration (Ccv)
460.0 - 601.1	Undifferentiated Central Volcanic Sequence - grey albite-chlorite alteration (Ccv)
601.1 - 626.2	Undifferentiated Central Volcanic Sequence - pink albite-chlorite alteration (Ccv)

APPENDIX 9
WSP11
Drill Log and Assays

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	WSP11	DRILLED BY	Almac
PROJECT	White Spur	NORTHING	5362558.12
PROSPECT		EASTING	376547.45
DESIGNED BY	M Vicary	RL	625
LOGGED BY	M Vicary	INCLINATION	-60
COMMENCED	8/12/97	AZIMUTH	090
FINISHED	7/1/98	EOH	292.0

PURPOSE

WSP11 was designed to test the Central Volcanic Sequence - White Spur Formation contact about 800m north of WSP4. It was the first in a series of drill holes to test this contact in the north of the EL.

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-60	090	74	-60.7	093	173	-61	099
15	-59.1	092	113	-61.3	096	236	-58.7	105
44	-60	094	143	-61.2	097	266	-58	107

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	0 - 113.7	Hole cased with PVC
NQ	113.7 - EOH	

SUMMARY

Summary Log:-	
0 - 82.9	Interbedded greywacke and lithicwacke
82.9 - 109.1	Black Siltstone
109.1 - 125.0	Ashy Siltstone (Graded top of underlying mass flow)
125.0 - 154.0	Qtz - feld crystal rich volcanoclastic sandstone (Graded mass flow)
154.0 - 184.4	Lithic rich base to mass flow horizon
184.4 - 194.2	Black Siltstone
194.2 - 211.5	Ashy Siltstone (Graded top of underlying mass flow)
211.5 - 240.0	Qtz - feld crystal rich volcanoclastic sandstone (Graded mass flow)
240.0 - 241.2	Lithic rich base to mass flow horizon. Minor pyrite clasts.
241.2 - 292.0	Medium grained feldspar phyric pumice breccia. (Central Volcanic Sequence)

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11 (SUMMARY)

SHEET 1 OF 2

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ▨ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : WHITE SPUR EL 5196
 PROSPECT :
 DATE : Dec 97 - Jan 98
 LOGGED BY : M VICARY

HOLE DEPTH M	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
0-3.5						scoria			
3.5-97.2						lakeshaded f.m. massive greywacke and lithomacke	Chg	Basic	SLT
97.2-109.1						Black Siltstone	Crs	SILT	
109.1-125.0						Ashy siltstone fine top of mass flow unit 109.1-184.2	VRCP		
125.0-154.0						f-an gr kdspar- quartz phytic crystal rich volcan- clastic sandstone	Crx	VRCK	
154.0-184.2						Coarse lithic rub base of mass flow unit 109.1-184.2 m.	VRCC		
184.2-198.2						Black Siltstone	Crs	SILT	

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11 (SUMMARY)

SHEET 2 OF 2

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊘ Breccia
- ▨ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : WHITE SPUR EL 5196
 PROSPECT :
 DATE : Dec 97 - Jan 98
 LOGGED BY : M VICARY

HOLE DEPTH M	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
184.2-209.2						Ashy siltstone and fgr ashy sandstone			
209.2-210.5						quartz pebbles in ash			
210.5-217.8						shy siltstone siltstone			
217.8-222.8						fgr vlt sst			
222.8-240.0						M gr vlt sst			
240.0-241.2						lithic rub mass flow (some pink plaster)			
241.2-242.0						M gr kdspar phytic clastic vlt sst			

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 11

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- * Visible gold

SHEET 1 OF 15

PROJECT : White Spire EL 5/96

PROSPECT :

DATE : December 97 - January 98

LOGGED BY : M VICARY

HOLE DEPTH M	SAMPLE No PREP	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
0									
1						0-3.5 Poorly consolidated rock fragments + clay	QZ	SCREEN	
2									
3									
4						3.5-8.7			
5			S1-80			interbedded f-m grained greywacke and lithomane			
6									
7						3.5-21.5 - very lithomane			
8									
9									
10			S1-85						
11									
12									
13									
14									
15			S1-85						
16									
17									
18									
19									
20									
REMARKS									

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 11

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- * Visible gold

SHEET 2 OF 15

PROJECT :

PROSPECT :

DATE :

LOGGED BY :

HOLE DEPTH M	SAMPLE No PREP	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
REMARKS									

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

SHEET 3 OF 15

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	LIMONITE	GEOLOGY NOTES	SUMMARY		
							DESCRIPTION	ROCK	ALTERATION
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
50									
1									
2									
3									
4									
5									
6									
7									
8									
9									
60									

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

SHEET 4 OF 15

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	LIMONITE	GEOLOGY NOTES	SUMMARY		
							DESCRIPTION	ROCK	ALTERATION
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
70									
1									
2									
3									
4									
5									
6									
7									
8									
9									

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

SHEET 5 OF 15

- Bedding
- Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						Sample No	ROCK	ALTERATION
0								
1		6065						
2								
3								
4								
5		6065			82-9-109-1 Thickly bedded black pyritic siltstone with minor sandstone and ash siltstone horizons indicated.			
6								
7								
8								
9		6070						
10		6115						
1								
2								
3								
4								
5		6065						
6								
7								
8		6065						
9		6110-15						
100	REMARKS							

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

SHEET 6 OF 15

- Bedding
- Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						Sample No	ROCK	ALTERATION
0								
1								
2								
3								
4								
5		6070						
6		6115						
7								
8								
9		6070						
10								
1					109-1-109-8 interbedded ash silt + black siltst.			
2					109-8-125-0 Ashy siltstone			
3								
4								
5								
6								
7								
8								
9								
100	REMARKS							

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 8 OF 15

PROJECT : _____

PROSPECT : _____

DATE : _____

LOGGED BY : _____

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
						FORMATION	ALTERATION
100							
1					138.0 - 154.0		
2					feldspar - Qtz phitic xst rich volcaniclastic sandstone		
3							
4							
5							
6							
7							
8							
9							
150							
1							
2							
3							
4							
5					154.0 - 184.2		
6					little rich base to crystal rich massflow unit.		
7							
8							
9							

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 7 OF 15

PROJECT : _____

PROSPECT : _____

DATE : _____

LOGGED BY : _____

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
						FORMATION	ALTERATION
100							
1							
2					122.0 - 123.2		
3					3 feldspar rich tube pumice clasts up to 8cm thick.		
4							
5							
6					125.158		
7					Graded fine-medium grained top of mass flow deposit.		
8							
9							
130							
1							
2							
3							
4							
5							
6							
7							
8							
9							

REMARKS

407280

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

SHEET 9 OF 15

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

SHEET 10 OF 15

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH M	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							SPALATION	ROCK	ALTERATION
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
1									
2									
3									
4									
5									
6									
7									
8									
9									

REMARKS

HOLE DEPTH M	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							SPALATION	ROCK	ALTERATION
0									
1						Mainly quartzite + siltstone clasts.			
2						Some pyrite + pyrite altered clasts.			
3									
4									
5						184.2 - 194.2			
6						Predominantly thick siltstone with minor ashy siltstone and F of basitic ULC sst			
7	179	104	42	141					
8	180	86	78	148					
9	181	100	109	220					
10	182	45	797	1324					
1	183	57	3336	1-11					
2	184	69	630	809	So.70				
3					So.70				
4									
5									
6					So.50 (2)				
7									
8									
9									

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- * Visible gold

SHEET 11 OF 15

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- * Visible gold

SHEET 12 OF 15

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH METER	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
20					209.2 - 211.5 Pink to purple rhyolite clasts in white-brown coloured ash siltstone. Pervasive	Cyq	VOFA - VDFE	
1						Cyq/CP	IR75/VOFA	A..b
2					211.5 - 217.4 Massive grey vitric ash with abundant pale grey devitrification spots			
3					Graded top of ashflow unit			
4					211.5 - 241.2m.	Cyq	VOFA	
5								
6								
7								
8					217.4 - 222.8 tgr vlc sst.	Cym	VRLF	
9								

REMARKS

HOLE DEPTH METER	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
220					222.8 - 240 tgr vlc sst			
1								
2								
3								
4								
5								
6								
7								
8								
9								

REMARKS

2022

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ↖ Narrow vein
- * Visible gold

SHEET 13 OF 15

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
		Cu	Pb	Zn					FORMATION	ROCK	ALTERATION	
240	1870											
1							260.0-261.2 Lithic rich massflow base. Some purple & pink clasts mainly argillite clasts					
2	185	8	40	68			244.2-247.0 (EON)					
3	186	9	18	37			Mg gr kalsaporphyric volcanoclastic sandstone					
4	187	9	17	40			Palely albic-chl alteration					
5	188	10	-3	23								
6	189	42	-3	42								
7												
8												
9												
250												
1												
2												
3												
4												
5												
6												
7												
8												
9	190	8	5	30								
260												
REMARKS												

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ↖ Narrow vein
- * Visible gold

SHEET 14 OF 15

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
		Cu	Pb	Zn					FORMATION	ROCK	ALTERATION	
260												
1	191	14	7	35			260.4-268.0					
2	192	10	-3	32			Zone of pervasive + micaceous of Carbonate					
3	193	16	-3	33								
4	194	13	21	147								
5	195	8	-3	81								
6	196	8	-3	42								
7	197	9	-3	37								
8	198	7	-3	27								
9	199	13	56	178								
270												
1												
2												
3												
4												
5												
6												
7												
8												
9												
280												
REMARKS												
1020200 = STD												

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ┆ Narrow vein
- * Viable gold

SHEET 15 OF 15

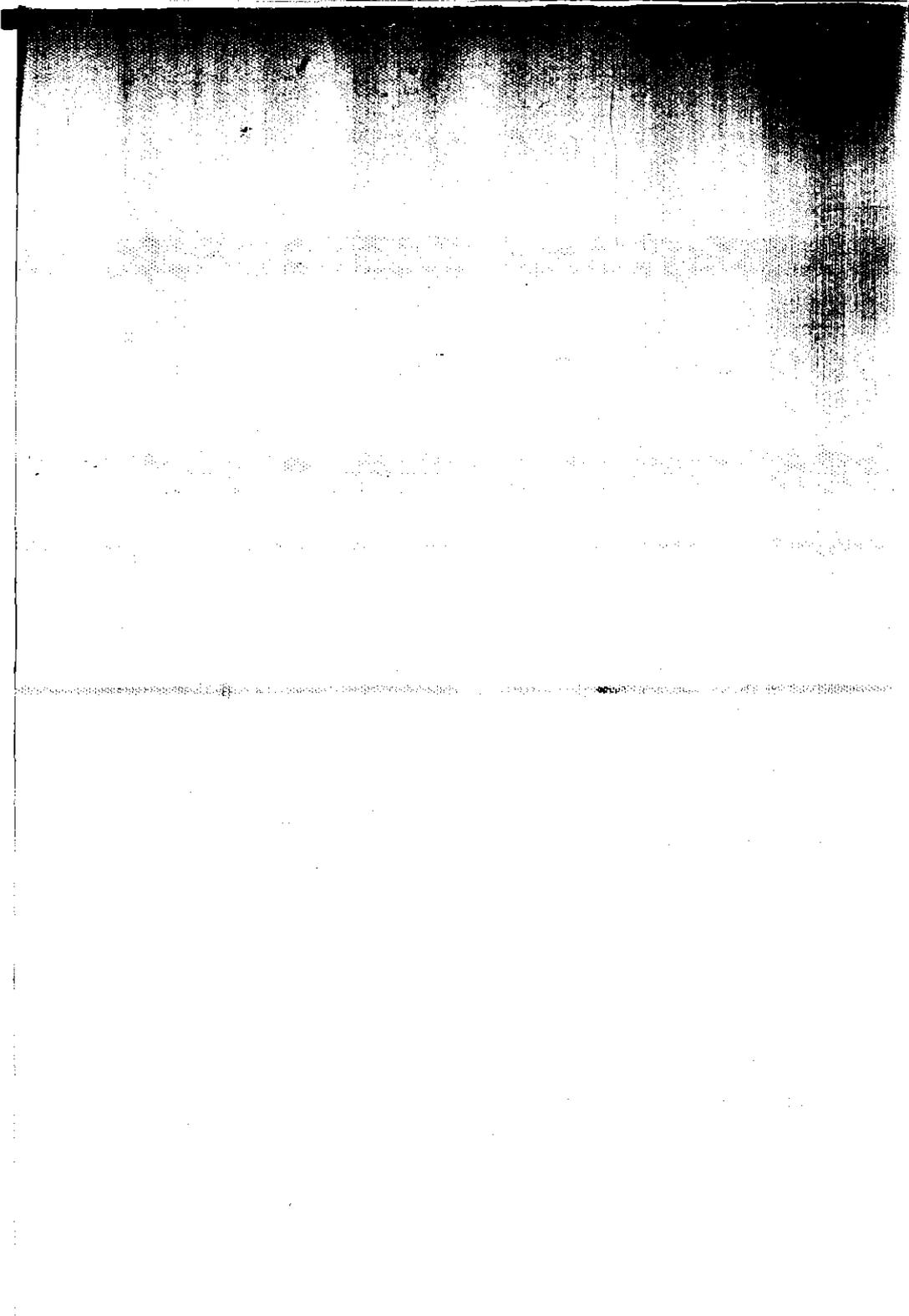
PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH SAMPLE NO	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY		
				CHL	SO ₄	PH		FORMATION	ROCK	ALTERATION
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
REMARKS										

LOH = 292m

AD-5
AD-6

427253



WSP11 Drill hole assays

wsp11assfinal.xls

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
1020179	WSP11	186	187	5362550	376638.6	462.54	104	NA	42	NA	141	NA	-1
1020180	WSP11	187	188	5362550	376639.1	461.67	86	NA	78	NA	148	NA	-1
1020181	WSP11	188	189	5362550	376639.6	460.8	100	NA	109	NA	220	NA	-1
1020182	WSP11	189	190	5362550	376640	459.93	145	NA	797	NA	1324	NA	-1
1020183	WSP11	190	191	5362550	376640.5	459.06	57	NA	3336	NA	11100	1.1	-1
1020184	WSP11	191	192	5362550	376641	458.19	69	NA	630	NA	809	NA	-1
1020185	WSP11	241.2	242	5362544	376665.8	415.06	8	NA	40	NA	68	NA	-1
1020186	WSP11	242	243	5362544	376666.3	414.29	9	NA	18	NA	37	NA	-1
1020187	WSP11	243	244	5362544	376666.8	413.44	9	NA	17	NA	40	NA	-1
1020188	WSP11	244	245	5362543	376667.3	412.59	10	NA	-3	NA	23	NA	-1
1020189	WSP11	245	246	5362543	376667.8	411.73	42	NA	-3	NA	42	NA	-1
1020190	WSP11	259	260	5362541	376674.8	399.77	8	NA	5	NA	30	NA	-1
1020191	WSP11	260	261	5362541	376675.3	398.91	14	NA	7	NA	35	NA	-1
1020192	WSP11	261	262	5362541	376675.8	398.06	10	NA	-3	NA	32	NA	-1
1020193	WSP11	262	263	5362541	376676.3	397.21	16	NA	-3	NA	33	NA	-1
1020194	WSP11	263	264	5362541	376676.8	396.35	13	NA	21	NA	147	NA	-1
1020195	WSP11	264	265	5362541	376677.3	395.5	8	NA	-3	NA	81	NA	-1
1020196	WSP11	265	266	5362541	376677.8	394.64	8	NA	-3	NA	42	NA	-1
1020197	WSP11	266	267	5362540	376678.3	393.79	9	NA	-3	NA	37	NA	-1
1020198	WSP11	267	268	5362540	376678.8	392.93	7	NA	-3	NA	27	NA	-1
1020199	WSP11	268	269	5362540	376679.3	392.08	13	NA	56	NA	128	NA	-1

SAMPLE	HOLE	FROM	TO	NORTH	EAST	RL	CU_A	CU_2A	PB_A	PB_2A	ZN_A	ZN_2A	AG_A
						Units	ppm	%	ppm	%	ppm	%	ppm
						Detection	4	0.01	5	0.01	4	0.01	2
						Method	GA101	GA104	GA101	GA104	GA101	GA104	GA101
						Laboratory	Analabs						

417951

WSP11 Drill hole assays

wsp11assfinal.xls

SAMPLE	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
1020179	NA												
1020180	NA												
1020181	NA												
1020182	NA												
1020183	NA												
1020184	NA												
1020185	-5	NA	9	NA	-5	1040	-1	2.8	150	6	-5	12	1.9
1020186	-5	NA	8	NA	-5	783	-1	2.6	128	5	139	9	1.9
1020187	-5	NA	5	NA	-5	864	-1	2.8	123	3	-5	6	1.5
1020188	-5	NA	5	NA	-5	886	-1	2.6	129	5	175	8	1.7
1020189	-5	NA	6	NA	-5	890	-1	2.3	122	4	9	6	1.8
1020190	-5	NA	2	NA	-5	962	-1	1.4	121	4	113	5	1.5
1020191	-5	NA	2	NA	-5	1050	-1	6.3	105	4	-5	7	1.6
1020192	-5	NA	1	NA	-5	551	-1	13.9	76	4	36	6	1.2
1020193	-5	NA	9	NA	-5	748	-1	6.4	100	5	-5	7	1.7
1020194	-5	NA	29	NA	-5	711	-1	6.1	90	8	53	5	1.3
1020195	-5	NA	3	NA	-5	662	-1	8	97	4	-5	6	1.5
1020196	-5	NA	4	NA	-5	542	1	9.1	77	3	73	5	1.3
1020197	-5	NA	2	NA	-5	701	-1	9.1	96	4	-5	6	1.5
1020198	-5	NA	3	NA	-5	442	-1	12.8	80	3	32	6	1.2
1020199	-5	NA	26	NA	-5	765	-1	4.1	107	11	-5	8	1.7

	AG_N	AS_A	AS_N	AU_G	AU_N	BA_N	BR_N	CA_N	CE_N	CO_N	CR_N	CS_N	EU_N
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection	5	1	1	0.008	5	100	2	1	2	1	5	1	0.5
Method	GN801	GA101	GN801	GG309	GN801								
Laboratory	Becquerel	Analabs	Becquerel	Analabs	Becquerel								

WSP11 Drill hole assays

wsp11assfinal.xls

SAMPLE	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
1020179	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020181	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020182	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020183	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020184	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020185	3.14	8.3	-20	4.2	67.9	0.8	-10	0.6	270	2.4	12.2	-5	11.4
1020186	2.24	6.7	-20	3	57.4	0.6	-5	1.87	165	1.6	10	-5	9.8
1020187	2.38	6.2	-20	2	54.3	0.5	-10	2.38	140	1.7	10	-5	9.7
1020188	2.34	6.8	-20	3.3	57.3	0.6	-10	2.22	145	1.3	10.7	-5	10.4
1020189	2.7	7	-20	2.9	54.2	0.6	-10	2.21	145	1.5	10.7	-5	10
1020190	2.02	6.3	-20	2.1	55.7	0.5	-5	3.18	105	0.5	9.8	-5	9.6
1020191	2.2	5.7	-20	2.8	46.6	0.5	-10	2.09	125	0.9	9	-5	8.4
1020192	1.92	4.4	-20	1.9	33.2	0.5	-5	1.03	125	0.7	6.7	-5	6.1
1020193	2.15	5.1	-20	2.9	44.8	0.5	-10	0.8	160	1.7	9	-5	7.6
1020194	2.75	5.3	-20	2.6	39.4	0.5	-5	0.77	130	2.4	8.5	-5	7.3
1020195	2.78	5.5	-20	2.8	42	0.5	-5	0.75	150	0.8	8.8	-5	8
1020196	4.39	4.7	-20	1.7	34.4	0.5	-5	0.49	110	1.6	7.1	-5	6.4
1020197	2.23	5.1	-20	2.3	43.4	0.5	-5	1.14	135	0.6	8.3	-5	7.5
1020198	2.03	4.4	-20	1.7	36.8	0.5	-5	1.05	125	0.6	6.9	-5	6.4
1020199	3.06	5.6	-20	2.7	46.3	0.5	-5	0.62	170	3.5	9.2	-5	8.6

	FE_N	HF_N	IR_N	K_N	LA_N	LU_N	MO_N	NA_N	RB_N	SB_N	SC_N	SE_N	SM_N
Units	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection	0.05	0.5	20	0.2	0.5	0.2	5	0.01	20	0.2	0.1	5	0.2
Method	GN801												
Laboratory	Becquerel												

42253

WSP11 Drill hole assays

wsp11assfinal.xls

SAMPLE	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
1020179	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020181	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020182	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020183	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020184	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020185	2	-5	24.6	7	-2	5.2	-100	-500	NA	NA	NA	NA	NA
1020186	2	-5	19.9	5	-2	3.8	-100	-500	NA	NA	NA	NA	NA
1020187	2	-5	19.9	5	-2	4.1	-100	-500	NA	NA	NA	NA	NA
1020188	1	-5	21.4	6	-2	4.2	-100	-500	NA	NA	NA	NA	NA
1020189	2	-5	21.1	6	-2	4.3	-100	-500	NA	NA	NA	NA	NA
1020190	1	-5	19.2	4	-2	3.9	-100	-500	NA	NA	NA	NA	NA
1020191	2	-5	17.6	5	-2	3.6	-100	-500	NA	NA	NA	NA	NA
1020192	-1	-5	13.3	4	-2	3.1	-100	-500	NA	NA	NA	NA	NA
1020193	2	-5	16.4	5	-2	3.5	-100	-500	NA	NA	NA	NA	NA
1020194	2	-5	16.1	4	-2	3.2	159	-500	NA	NA	NA	NA	NA
1020195	1	-5	17.3	5	-2	3.5	-100	-500	NA	NA	NA	NA	NA
1020196	-1	-5	13.9	4	-2	3.2	-100	-500	NA	NA	NA	NA	NA
1020197	1	-5	16.2	4	-2	3.4	-100	-500	NA	NA	NA	NA	NA
1020198	-1	-5	13.3	5	-2	3.2	-100	-500	NA	NA	NA	NA	NA
1020199	-1	-5	17.2	5	-2	3.5	113	-500	NA	NA	NA	NA	NA

	TA_N	TE_N	TH_N	U_N	W_N	YB_N	ZN_N	ZR_N	SiO2	TiO2	Al2O3	Fe2O3	MgO
Units	ppm	%	%	%	%	%							
Detection	1	5	0.5	2	2	0.2	100	500	0.05	0.01	0.05	0.01	0.01
Method	GN801	X408	X408	X408	X408	X408							
Laboratory	Becquerel	Analabs	Analabs	Analabs	Analabs	Analabs							

427084

WSP11 Drill hole assays

wsp11assfinal.xls

SAMPLE	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
1020179	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020181	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020182	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020183	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020184	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1020185	NA	NA	NA	NA	NA	NA	NA	NA	273	2450	48	435
1020186	NA	NA	NA	NA	NA	NA	NA	NA	221	2199	34	410
1020187	NA	NA	NA	NA	NA	NA	NA	NA	216	2005	36	456
1020188	NA	NA	NA	NA	NA	NA	NA	NA	229	2172	43	559
1020189	NA	NA	NA	NA	NA	NA	NA	NA	228	2151	35	498
1020190	NA	NA	NA	NA	NA	NA	NA	NA	222	2358	40	401
1020191	NA	NA	NA	NA	NA	NA	NA	NA	208	1878	36	463
1020192	NA	NA	NA	NA	NA	NA	NA	NA	158	1384	19	443
1020193	NA	NA	NA	NA	NA	NA	NA	NA	204	1979	32	434
1020194	NA	NA	NA	NA	NA	NA	NA	NA	193	1940	23	373
1020195	NA	NA	NA	NA	NA	NA	NA	NA	202	1790	27	405
1020196	NA	NA	NA	NA	NA	NA	NA	NA	155	1426	20	375
1020197	NA	NA	NA	NA	NA	NA	NA	NA	180	1672	21	396
1020198	NA	NA	NA	NA	NA	NA	NA	NA	144	1175	21	413
1020199	NA	NA	NA	NA	NA	NA	NA	NA	201	2143	31	351

	MnO	CaO	K2O	Na2O	P2O5	SO3	LOI	TOTAL	ZR_X	TI_X	V_X	P_X
Units	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm
Detection	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	5	50	5	30
Method	X408	GX401	GX401	GX401	X401							
Laboratory	Analabs											

4211933

APPENDIX 10
WSP12
Drill Log and Assays

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	WSP12	DRILLED BY	Almac
PROJECT	White Spur	NORTHING	5363429.82
PROSPECT		EASTING	376475.23
DESIGNED BY	M Vicary	RL	660
LOGGED BY	A Elliston	INCLINATION	-65
COMMENCED	January 1998	AZIMUTH	078 mag / 090 AMG
FINISHED	February 1998	EOH	353.5

PURPOSE

To intersect White Spur Formation - Central Volcanics Complex contact (Hercules / Rose bery horizon) at approximately 350 - 400m downhole depth.

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-65	090	120	-65	096	251.5	-64	104
15	-64	NA	150	-65	097	280	-63.75	106
30	-65	091	180	-65.5	099	311.5	-63.75	106
60	-64	NA	205.2	-65	096	344	-63.75	109
92.5	-65	091	251.5	-64	104			

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	0 - 120.1	
NQ	120.1 - 353.5 EOH	Cased hole with PVC

SUMMARY

Summary Log:-	
0 - 12.4	Greywacke/lithicwacke (Cyg)
12.4 - 47.4	Black siltstone (Cyss)
47.4 - 69.0	Ashy siltstone top of mass flow unit (Cya)
69.0 - 85.7	Qtz / f'spar crystal rich volcanoclastic sandstone (Cyx)
85.7 - 104.41	Ashy siltstone top grading downhole to coarse lithic base (Cyx/Cya)
104.41 - 139.4	Ashy siltstone top grading downhole to coarse lithic base (Cyx/Cya)
139.4 - 172.0	Ashy siltstone top of underlying mass flow (Cya)
172.0 - 183.0	Qtz / f'spar crystal rich volcanoclastic sandstone (Cyx)
183.0 - 199.45	Coarse lithic rich base of mass flow (Cyx)
199.45 - 218.0	Black siltstone (Cyss)
218.0 - 246.0	Small interbedded mass flow units (sandstone - ashy siltstone) (Cya)
246.0 - 249.57	Sericite altered coarse lithic base of larger mass flow unit (Cymfs?)
249.57 - 353.5	Medium grained feldspar phyric pumiceous sanstone (Central Volcanics Sequence Ccv)

APPENDIX 11
Rock Chip Assays

All White Spur Rock Chip Samples

2317rock.xls

SAMPLE	EAST	NORTH	ROCK	FORMATION	CU	PB	ZN	AG	AS	AU	BA	BI	BR	CD	CE	CO
37744	377618	5358272	MPY	CVC	37	79	37	2	4280	-0.008	250	NA	-2	NA	4	2.5
37745	377618	5358272	MPY	CVC	30	55	45	-2	1730	-0.008	463	NA	-2	NA	34.3	11.7
37746	377618	5358272	MPY	CVC	17	39	66	-2	949	-0.008	864	NA	3	NA	19.4	7
37747	377618	5358272	MPY	CVC	54	60	40	6	4720	-0.008	-100	NA	14.7	NA	-2	7
37749	377618	5358272	MPY	CVC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
37756	377558	5358212	VDFM	CVC?	61	32	71	-5	16.8	-0.005	471	NA	-2	NA	82.4	3.7
37757	377646	5358215	SILT	HFW	78	-10	68	-5	4	-0.005	-100	NA	3.2	NA	72.9	40.2
37758	377686	5358228	SILT	HFW	-5	-10	40	-5	2.6	-0.005	-100	NA	-2	NA	30.7	6.2
37759	377690	5358414	VDFM	CVC	-5	61	105	-5	9	-0.005	1250	NA	-2	NA	73.5	10.4
37761	377681	5358412	SILT	CVC?	-5	40	138	-5	3.1	-0.005	-100	NA	-2	NA	16.8	58.8
37762	377678	5358419	VDFM	CVC	-5	26	107	-5	3.7	-0.005	962	NA	-2	NA	87.5	7.2
37763	377634	5358412	VDFM	CVC	-5	11	98	-5	3.6	-0.005	984	NA	-2	NA	81.4	5.9
37764	377629	5358412	VDFM	CVC	-5	15	62	-5	7.6	-0.005	797	NA	3	NA	91.5	5.7
37765	377591	5358411	VDFM	CVC	-5	17	73	-5	1.9	-0.005	794	NA	-2	NA	90.7	7.9
37766	377618	5358272	MPY	CVC	NA	NA	NA	3	4996	0.015	NA	NA	NA	NA	NA	NA
37767	377935	5358821	VDFM	CVC	-5	12	74	-5	10.3	-0.005	160	NA	-2	NA	43.6	10.4
37768	377931	5358804	VDFM	CVC	20	16	72	-5	6.6	-0.005	497	NA	-2	NA	75.4	8.2
37769	377853	5358814	VDFM	CVC	77	-10	126	-5	580	-0.005	2950	NA	-2	NA	69.5	36.4
37770	377853	5358814	VDFM	CVC	47	-10	92	-5	2210	-0.005	4090	NA	-2	NA	79	56.9
37771	378012	5358881	VDFM	CVC	-5	-10	76	-5	7	-0.005	800	NA	2.2	NA	89.9	10.5
37772	377969	5358860	VDFM	CVC	-5	12	62	-5	7.1	-0.005	1140	NA	-2	NA	112	8.7
37773	377910	5358862	VDFM	CVC	-5	-10	82	-5	3.6	-0.005	1300	NA	-2	NA	83.2	9.5
37774	378100	5360764	VDFM	CVC	NA	NA	NA	-5	5.3	-0.005	826	NA	3.38	NA	78.8	-1
37775	377900	5360515	VDFM	CVC	NA	NA	NA	-5	5.8	-0.005	1640	NA	-2	NA	123	14.8
37776	377775	5360360	VDFM	CVC	NA	NA	NA	-5	1.81	-0.005	1310	NA	-2	NA	124	-1
37777	377655	5360265	VDFM	CVC	NA	NA	NA	-5	1.87	-0.005	975	NA	-2	NA	142	2.32
37778	377540	5360270	IR>	CP	NA	NA	NA	-5	1.28	0.007	1040	NA	-2	NA	66.8	3.88
37779	377455	5360340	VDFA	WSF	NA	NA	NA	-5	9.09	-0.005	1490	NA	-2	NA	74.6	2.43
37781	377225	5360437	SILT	WSF	NA	NA	NA	-5	25.4	0.007	1110	NA	-2	NA	96.1	10.1
37782	377212	5360155	SILT	WSF	NA	NA	NA	-5	21	0.006	666	NA	-2	NA	47.2	1.14
37783	377214	5359880	SILT	WSF	NA	NA	NA	-5	15.6	-0.005	2220	NA	-2	NA	84	22.9
37784	377265	5359270	SILT	WSF	NA	NA	NA	-5	22	-0.005	616	NA	-2	NA	64.1	21.3
37785	377315	5358752	LWAC	WSF	NA	NA	NA	-5	1.62	-0.005	287	NA	-2	NA	93.3	14.2
37786	376885	5358142	SILT	WSF	NA	NA	NA	-5	12.4	-0.005	674	NA	-2	NA	76.4	18.5
37787	376722	5358110	SILT	WSF	NA	NA	NA	-5	7.36	-0.005	1070	NA	-2	NA	67.9	13.8
37788	376217	5358205	VDFX	WSF	NA	NA	NA	-5	1.38	-0.005	1120	NA	-2	NA	75	-1
37789	375900	5358280	SILT	WSF	NA	NA	NA	-5	1.61	-0.005	463	NA	-2	NA	83.6	20.4
37790	375675	5358195	SILT	WSF	NA	NA	NA	-5	21.4	-0.005	538	NA	-2	NA	93.8	33.1
41774	376478	5364000	VDFA	WSF	-4	159	227	-2	27.8	-0.005	1690	NA	-2	NA	86.4	3.8
41775	376474	5364015	VDFA	WSF	-4	884	558	-2	58.9	-0.005	563	NA	2.4	NA	57	4
41776	376652	5362814	VDFM	WSF	8	525	240	-2	74.3	-0.005	1360	NA	-2	NA	116	1.9

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SAMPLE	EAST	NORTH	ROCK	FORMATION	CU	PB	ZN	AG	AS	AU	BA	BI	BR	CD	CE	CO
41777	376485	5363208	VR>M	WSF	12	16	67	-2	4	-0.005	1580	NA	-2	NA	87.4	5.8
41778	376795	5361332	VDFM	WSF	15	9	44	-2	42.4	-0.005	1600	NA	-2	NA	135	5
41779	376804	5361465	VDFM	WSF	8	-5	31	-2	17.5	-0.005	1070	NA	-2	NA	135	1.6
37793	377267	5362524	VDA/VLC	WSF	17	336	335	-2	75.5	-0.005	5560	NA	-2	NA	7.8	-1
43194	377308	5360450	QZ/PY	vein	82	-5	13	-2	15.3	-0.005	-100	NA	-2	NA	-2	8.8
43802	376815	5362606	VDFM	CVC	15	85	248	-1	159	-0.005	1380	NA	-2	NA	200	-1
43803	377448	5362592	VDFM	CVC	10	24	102	-1	2	-0.005	677	NA	4	NA	100	-1
43804	377605	5362610	IB__	DYKE	221	20	221	-1	51	-0.005	1690	NA	-2	NA	86	40
43805	375737	5361772	VDFM	WSF	5	16	160	-1	2	-0.005	1390	NA	-2	NA	197	-1
43806	375605	5361772	VR<M	WSF	10	7	72	-1	3	-0.005	848	NA	-2	NA	108	1
43807	375104	5361755	LR</VRM	WSF	7	9	86	-1	5	-0.005	890	NA	2	NA	84	15
43808	375152	5361756	SILT	WSF	8	-3	102	-1	1	-0.005	191	NA	-2	NA	84	2
43809	377225	5363782	V DFA	CVC	5	16	120	-1	3	-0.005	1390	NA	-2	NA	36	-1
43810	376204	5363812	VDFM	CVC	3	18	81	-1	3	-0.005	682	NA	-2	NA	115	-1
43811	376914	5361520	VDFM	CVC	6	4	57	-1	5	-0.005	457	NA	-2	NA	75	2
43812	376902	5361537	VDFM	CVC	2	4	-2	-1	4	-0.005	931	NA	-2	NA	17	-1
43813	376923	5361533	VDFM	CVC	9	30	575	-1	18	-0.005	894	NA	-2	NA	48	3
43814	376916	5361633	VDFM	CVC	3	-3	9	-1	4	-0.005	947	NA	-2	NA	90	-1
43815	376914	5361677	VDFM	CVC	-2	-3	7	-1	2	-0.005	730	NA	-2	NA	81	-1
43816	377005	5361726	VDFM	CVC	11	-3	16	-1	3	-0.005	907	NA	-2	NA	109	4
43817	377068	5360877	VDFM	CVC	11	-3	11	-1	3	-0.005	107	NA	5	NA	111	-1
43818	377076	5360870	VDFM	CVC	10	9	5	-1	3	-0.005	695	NA	-2	NA	111	-1
43819	377070	5360850	VDFM	CVC	10	11	-2	-1	9	-0.005	934	NA	3	NA	120	-1
43821	377088	5360827	VDFM	CVC	10	10	44	-1	3	-0.005	969	NA	-2	NA	148	-1
43822	377125	5360755	VDFM	CVC	7	19	58	-1	3	-0.005	682	NA	3	NA	107	2
43823	375290	5361754	V DFF	WSF	6	12	-2	-1	-1	-0.005	1500	NA	-2	NA	197	1
43824	375287	5361702	VR<M	WSF	5	17	-2	-1	-1	-0.005	1050	NA	-2	NA	140	-1
43825	375290	5361685	VR<M	WSF	4	50	75	-1	1	-0.005	655	NA	5	NA	127	-1
43826	377095	5360920	q-ssch	CVC	2	5	8	-1	-1	0.03	296	NA	-2	NA	25	-1
43827	377103	5360946	VDFM	CVC	8	3	30	-1	47	0.05	691	NA	2	NA	97	-1
43828	377156	5360978	VDFM	CVC	40	5	28	-1	371	0.25	1430	NA	-2	NA	153	4
43829	377156	5360978	VDFM	CVC	6	-32	29	-1	127	0.01	1270	NA	3	NA	120	-1
43830	377204	5360997	VDFM	CVC	2	-32	32	-1	7	0.01	846	NA	2	NA	104	2
43831	377255	5361094	VDFM	CVC	8	-32	50	-1	8	0.05	745	NA	2	NA	105	3
43832	377224	5361118	VDFM	CVC	5	-32	40	-1	7	-0.005	1160	NA	-2	NA	100	-1
43833	377035	5360926	q-ssch	CVC	-21	-32	5	-1	-1	-0.005	215	NA	-2	NA	15	-1
43834	377870	5361732	LDF?	CVC	2	15	85	-1	5	-0.005	886	NA	2	NA	114	-1
43835	377822	5361682	LDF?	CVC	6	8	101	-1	-1	-0.005	1120	NA	5	NA	135	4
43836	377732	5361604	VDFM	CVC	-21	-32	49	-1	4	-0.005	385	NA	3	NA	125	-1
43837	377682	5361513	VDFM	CVC	2	7	48	-1	5	0.01	761	NA	-2	NA	106	1
43838	377670	5361446	VDFM	CVC	3	18	45	-1	4	-0.005	1010	NA	-2	NA	155	2

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SAMPLE	EAST	NORTH	ROCK	FORMATION	CU	PB	ZN	AG	AS	AU	BA	BI	BR	CD	CE	CO
43839	377862	5361044	VDFM	CVC	3	7	39	-1	2	-0.005	836	NA	6	NA	105	1
43841	377592	5360986	VDFM	CVC	2	8	22	-1	2	-0.005	802	NA	-2	NA	114	-1
131346	375460	5357870	VCC	WSF	NA	21	NA	NA	NA	NA	1038	NA	NA	NA	70	NA
131348	375620	5356200	VCC	WSF	NA	3	NA	NA	NA	NA	1077	NA	NA	NA	65	NA
131357	375880	5358270	VCC	WSF	NA	11	NA	NA	NA	NA	677	NA	NA	NA	71	NA
131358	375880	5358270	SST	WSF	NA	6	NA	NA	NA	NA	737	NA	NA	NA	91	NA
131364	376060	5358480	CONG	WSF	NA	4	NA	NA	NA	NA	1034	NA	NA	NA	77	NA
131365	376060	5358480	SST	WSF	NA	13	NA	NA	NA	NA	266	NA	NA	NA	44	NA
131376	377210	5358420	SST	WSF	NA	NA	NA	NA	NA	NA	323	NA	NA	NA	31	NA
131377	376720	5358120	MST	WSF	NA	127	NA	NA	NA	NA	794	NA	NA	NA	97	NA
131379	377320	5358820	SST	WSF	NA	12	NA	NA	NA	NA	497	NA	NA	NA	63	NA
131381	377280	5359250	MST	WSF	NA	16	NA	NA	NA	NA	500	NA	NA	NA	55	NA
131383	377150	5359830	VCC	WSF	NA	36	NA	NA	NA	NA	1157	NA	NA	NA	121	NA
131386	377240	5360200	L_B	WSF	NA	58	NA	NA	NA	NA	834	NA	NA	NA	95	NA
131387	377210	5360290	SST	WSF	NA	24	NA	NA	NA	NA	2360	NA	NA	NA	134	NA
131388	377330	5360480	VCC	WSF	NA	13	NA	NA	NA	NA	3079	NA	NA	NA	109	NA
131396	377420	5360440	SST	WSF	NA	38	NA	NA	NA	NA	473	NA	NA	NA	83	NA
131396	377420	5360440	SST	WSF	NA	32	NA	NA	NA	NA	473	NA	NA	NA	89	NA
131368	376250	5358240	VCC	WSF	NA	12	NA	NA	NA	NA	1178	NA	NA	NA	82	NA
131369	376340	5358060	VCC	WSF	NA	26	NA	NA	NA	NA	983	NA	NA	NA	111	NA
131374	376300	5357920	VCC	WSF	NA	8	NA	NA	NA	NA	1074	NA	NA	NA	90	NA
131375	376390	5357950	VCC	WSF	NA	5	NA	NA	NA	NA	1529	NA	NA	NA	122	NA
HRC96-1	375175	5357850	SILT	WSF	56	15	111	0.1	11	NA	556	0.5	NA	0.2	69	NA
HRC96-2	375422	5357870	SILT	WSF	48	17	101	0.1	7	NA	794	0.3	NA	0.2	59	NA
HRC96-3	375480	5357874	SST	WSF	14	34	57	0.2	3	NA	870	0.2	NA	-0.1	102	NA
HRC96-4	375528	5357860	MFBX	WSF	52	19	93	-0.1	6	NA	928	0.3	NA	0.3	76	NA
HRC96-5	375618	5357975	SST	WSF	11	19	46	-0.1	-1	NA	549	0.3	NA	-0.1	70	NA
HRC96-6	375630	5358187	SILT	WSF	6	5	19	-0.1	1	NA	957	0.2	NA	-0.1	103	NA
HRC96-7	375719	5358452	SST	WSF	14	15	34	0.1	2	NA	658	0.2	NA	-0.1	76	NA
HRC96-8	375719	5358452	SST	WSF	11	9	45	-0.1	3	NA	638	0.1	NA	0.1	72	NA
HRC96-9	375851	5358311	VD<M	WSF	10	5	66	-0.1	1	NA	3047	0.2	NA	0.2	138	NA
HRC96-10	375855	5358453	SILT	WSF	69	20	104	0.2	13	NA	467	0.4	NA	0.2	73	NA
HRC96-11	376035	5358444	SST	WSF	30	2	66	-0.1	1	NA	2008	0.2	NA	-0.1	49	NA
HRC96-12	376082	5358459	SST	WSF	7	9	61	0.1	2	NA	1264	0.1	NA	-0.1	83	NA
HRC96-13	376085	5358457	SILT	WSF	10	7	68	-0.1	35	NA	858	0.1	NA	-0.1	80	NA
HRC96-15	376138	5358366	LWAC	WSF	22	13	86	0.2	9	NA	826	0.2	NA	0.2	92	NA
HRC96-16	376138	5358365	LWAC	WSF	18	22	46	0.2	12	NA	821	0.1	NA	0.2	70	NA
HRC96-17	376207	5358281	SST	WSF	6	10	63	-0.1	4	NA	930	0.2	NA	-0.1	94	NA
HRC96-18	376282	5358197	VDFM	WSF	5	8	53	-0.1	4	NA	978	0.1	NA	0.1	83	NA
HRC96-19	376271	5357988	VDFM	WSF	4	6	73	0.1	2	NA	410	0.1	NA	-0.1	198	NA
HRC96-20	376295	5357916	VDFM	WSF	1	17	36	0.1	1	NA	992	0.2	NA	0.1	120	NA

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SAMPLE	EAST	NORTH	ROCK	FORMATION	CU	PB	ZN	AG	AS	AU	BA	BI	BR	CD	CE	CO
HRC96-21	376379	5357948	VDFM	WSF	3	19	64	0.2	2	NA	2444	0.3	NA	0.2	112	NA
HRC96-22	376548	5358055	VDFM	WSF	3	3	22	-0.1	-1	NA	1077	0.1	NA	-0.1	127	NA
HRC96-23	376648	5358121	VD<M	WSF	5	18	37	0.1	-1	NA	2263	-0.1	NA	-0.1	132	NA
HRC96-24	376703	5358140	SILT	WSF	46	12	119	-0.1	6	NA	843	0.2	NA	0.3	52	NA
HRC96-25	377152	5359819	SST	WSF	4	12	44	-0.1	5	NA	852	0.1	NA	-0.1	111	NA
HRC96-26	377223	5359949	SST	WSF	6	26	42	0.3	4	NA	1000	0.1	NA	-0.1	114	NA
HRC96-27	377192	5360167	SST	WSF	6	327	38	0.6	270	NA	844	0.2	NA	-0.1	96	NA
HRC96-28	377275	5360514	SST/SLT	WSF	7	8	45	0.1	1650	NA	3362	0.3	NA	0.2	121	NA
HRC96-29	377275	5360514	SST/SLT	WSF	8	13	36	0.2	171	NA	4667	0.4	NA	0.1	107	NA
HRC96-30	377278	5360511	SST/SLT	WSF	4	6	41	0.1	124	NA	2403	-0.1	NA	0.4	122	NA
HRC96-31	377280	5360509	SST/SLT	WSF	42	8	48	0.2	1100	NA	3109	0.3	NA	0.4	126	NA
HRC96-33	377473	5360335	SST/SLT	WSF	8	50	25	0.6	13	NA	1195	0.4	NA	0.3	143	NA
HRC96-34	377475	5360334	SST	WSF	17	47	63	0.2	12	NA	2460	0.3	NA	0.3	126	NA
HRC96-35	377477	5360332	SST	WSF	18	30	45	0.2	12	NA	1153	0.3	NA	0.2	140	NA
HRC96-36	377561	5360283	IR>	CP	12	6	25	-0.1	4	NA	834	0.1	NA	0.2	100	NA
HRC96-37	377574	5360291	IR>	CP	12	2	15	-0.1	5	NA	996	-0.1	NA	0.2	76	NA
HRC96-38	377649	5360278	VDFM	CVC	5	6	46	0.1	1	NA	1616	0.2	NA	0.3	94	NA
HRC96-40	377658	5360334	VDFM	CVC	3	9	61	0.2	4	NA	896	0.1	NA	0.2	82	NA
HRC96-39	377735	5360384	VDFM	CVC	7	13	32	0.1	8	NA	1065	0.2	NA	0.3	90	NA
HRC96-41	377847	5360441	VDFM	CVC	6	8	94	0.2	14	NA	1090	0.1	NA	0.2	72	NA
HRC96-42	377970	5360683	VDFM	CVC	4	6	24	0.2	-1	NA	865	-0.1	NA	0.2	79	NA
HRC96-43	377976	5360736	VDFM?	CVC	5	8	34	0.1	-1	NA	592	0.1	NA	0.4	74	NA
HRC96-44	378093	5360783	VDFM	CVC	6	6	37	0.1	3	NA	769	0.1	NA	0.4	73	NA
HRC96-45	378299	5361228	VDFM?	CVC	13	27	34	0.3	202	NA	976	0.9	NA	0.3	64	NA
WS97-1	377500	5364050	IR<	CVC	1	4	43	-0.1	3	NA	543	0.1	NA	0.4	63	NA
WS97-2	377170	5364005	VDFM	CVC	1	3	15	0.2	5	NA	879	0.4	NA	0.4	98	NA
WS97-3	377140	5364005	VDFM	CVC	2	4	23	0.1	8	NA	1161	0.2	NA	0.4	97	NA
WS97-4	377060	5364000	VDFM	CVC	8	4	33	0.2	11	NA	984	0.2	NA	0.4	98	NA
WS97-5	377000	5364000	VDFM	CVC	5	5	52	0.1	11	NA	1295	0.2	NA	0.5	111	NA
WS97-6	376940	5364000	VDFM	CVC	6	3	24	0.1	10	NA	794	0.1	NA	0.5	82	NA
WS97-7	376900	5363975	MFBX	WSF	5	14	61	0.2	13	NA	1203	0.2	NA	0.6	59	NA
WS97-8	376900	5363950	SST	WSF	2	58	73	0.1	14	NA	994	0.2	NA	0.8	111	NA
WS97-9	376895	5364060	VDFM	CVC	6	19	52	0.1	9	NA	1298	0.2	NA	0.4	89	NA
WS97-10	376885	5364080	VDFM	CVC	5	5	43	0.1	8	NA	989	0.2	NA	0.6	102	NA
WS97-11	376850	5364125	VDFM	CVC	1	5	12	0.1	9	NA	1245	0.1	NA	0.5	110	NA
WS97-12	376850	5364235	VDFM	CVC	2	3	25	0.1	4	NA	642	0.1	NA	0.3	79	NA
WS97-13	376860	5364340	VDFM	CVC	2	7	18	0.2	5	NA	572	0.1	NA	0.4	82	NA
WS97-14	376150	5363580	SILT	WSF	3	37	95	0.2	6	NA	1588	0.1	NA	0.4	66	NA
WS97-15	376115	5363730	VR>M	WSF	3	36	192	0.2	9	NA	833	-0.1	NA	0.4	67	NA
WS97-16	376125	5363785	VR>M	WSF	4	13	95	0.1	12	NA	846	-0.1	NA	0.5	38	NA
WS97-17	376110	5363840	VR>M	WSF	4	8	62	0.2	8	NA	1668	-0.1	NA	0.7	99	NA

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SAMPLE	EAST	NORTH	ROCK	FORMATION	CU	PB	ZN	AG	AS	AU	BA	BI	BR	CD	CE	CO
WS97-18	376105	5363860	VDFM	CVC	2	9	17	-0.1	4	NA	2226	0.3	NA	0.4	89	NA
WS97-19	376110	5363910	VDFM	CVC	4	77	45	0.2	4	NA	1998	0.2	NA	0.4	112	NA
WS97-20	376105	5363940	VR>M	WSF	7	30	53	0.4	32	NA	2245	-0.1	NA	0.4	30	NA
WS97-21	376115	5363970	VDFM	CVC	2	2	31	0.2	8	NA	2421	-0.1	NA	0.4	90	NA
WS97-22	376110	5364075	VR>M	WSF	6	38	14	0.1	11	NA	1241	0.1	NA	0.4	36	NA
WS97-23	376115	5364155	VR>M	WSF	6	14	156	0.3	7	NA	2150	0.1	NA	0.5	78	NA
WS97-24	376130	5364205	VDFM	CVC	1	2	15	-0.1	4	NA	1768	0.1	NA	0.4	87	NA
WS97-25	376130	5364255	VDFM	CVC	2	13	29	0.1	5	NA	1100	0.1	NA	0.6	89	NA
WS97-26	376195	5364315	VDFM	CVC	2	2	23	0.2	35	NA	1158	0.1	NA	0.5	147	NA
WS97-27A	376310	5364395	VDFM	CVC	1	8	21	0.1	7	NA	782	-0.1	NA	0.4	126	NA
WS97-27B	376310	5364395	VDFM	CVC	3	19	72	1	6	NA	840	0.2	NA	0.4	92	NA
WS97-28	376000	5364000	SILT	WSF	6	2	56	0.3	9	NA	2039	0.2	NA	0.6	75	NA
WS97-29	375930	5364000	VDFA	WSF	46	14	84	0.2	13	NA	454	0.1	NA	0.4	48	NA
WS97-30	375830	5364010	VR>M	WSF	7	4	62	0.1	7	NA	1044	0.1	NA	0.7	80	NA
WS97-31	377370	5362530	VDFM	CVC	5	4	32	0.1	5	NA	839	0.2	NA	0.4	100	NA
WS97-32	377330	5362555	VDFM	CVC	7	8	28	-0.1	6	NA	1194	0.1	NA	0.4	99	NA
WS97-33	377285	5362540	VDFM	CVC	9	5	28	0.2	7	NA	1127	-0.1	NA	0.3	82	NA
WS97-34	377260	5362525	MFBX	WSF	12	1082	1394	2.6	63	NA	4084	0.1	NA	4.7	17	NA
WS97-35	377245	5362505	MFBX	WSF	3	27	53	0.2	39	NA	1354	0.1	NA	0.5	115	NA
WS97-36	377210	5362530	MFBX	WSF	4	13	18	0.2	30	NA	1379	-0.1	NA	0.4	89	NA
WS97-37	377185	5362530	VDFA	WSF	1	40	24	0.1	10	NA	1305	0.1	NA	0.4	111	NA
WS97-38	377140	5362545	VDFA	WSF	18	103	161	0.3	42	NA	1999	0.1	NA	0.7	82	NA
WS97-39	377035	5362515	VDFA	WSF	5	6	13	0.1	18	NA	1659	0.1	NA	0.5	113	NA
WS97-40	376975	5362660	VDFA	WSF	2	18	58	-0.1	6	NA	1296	0.2	NA	0.4	95	NA
WS97-41	376410	5365255	SST	CVC	2	10	67	0.2	8	NA	1460	0.1	NA	0.5	59	NA
WS97-42	376340	5365210	SCHIST	CVC	1	14	47	0.8	19	NA	874	0.1	NA	0.3	26	NA
WS97-43	376310	5365200	SST	WSF	2	26	75	0.4	16	NA	1270	0.3	NA	0.4	89	NA
WS97-44	376295	5365190	MFBX	WSF	3	40	71	0.3	7	NA	743	0.4	NA	0.4	83	NA
WS97-45	376230	5365125	SILT	WSF	3	34	57	0.4	8	NA	1688	0.1	NA	0.5	94	NA
WS97-46	376180	5365085	VR>M	WSF	2	15	84	0.2	9	NA	915	NA	NA	0.4	133	NA
P37920	376650	5362100	NA	NA	36	179	110	-1	NA	-0.008	581	NA	NA	NA	NA	NA
P37921	376970	5361100	NA	NA	7	10	41	-1	NA	-0.008	1891	NA	NA	NA	NA	NA
P37922	376788	5361460	NA	NA	16	12	33	-1	NA	-0.008	658	NA	NA	NA	NA	NA
P37923	376930	5361410	NA	NA	19	337	393	-1	NA	-0.008	896	NA	NA	NA	NA	NA
P37924	377260	5362930	NA	NA	6	8	41	-1	NA	NA	NA	NA	NA	NA	NA	NA
P37925	377150	5362120	NA	NA	21	236	105	-1	NA	NA	NA	NA	NA	NA	NA	NA
P37926	377230	5361810	NA	NA	10	13	37	-1	NA	NA	NA	NA	NA	NA	NA	NA
P37927	377460	5362150	NA	NA	4	5	32	-1	NA	NA	NA	NA	NA	NA	NA	NA
P37928	377070	5363670	NA	NA	5	9	37	-1	NA	NA	NA	NA	NA	NA	NA	NA
P37929	377230	5362400	NA	NA	4	13	34	-1	NA	NA	NA	NA	NA	NA	NA	NA
P37930	377200	5362860	NA	NA	5	29	41	-1	NA	NA	NA	NA	NA	NA	NA	NA

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SAMPLE	EAST	NORTH	ROCK	FORMATION	CU	PB	ZN	AG	AS	AU	BA	BI	BR	CD	CE	CO
P37931	377330	5362060	NA	NA	5	6	41	-1	NA							
P37932	377360	5361800	NA	NA	5	8	44	-1	NA							
P37933	377230	5362100	NA	NA	12	15	85	-1	NA							
P37934	377165	5362325	NA	NA	10	18	39	-1	NA							
P37935	377160	5362320	NA	NA	5	30	38	-1	NA							
P37936	375050	5360180	NA	NA	24	37	148	-1	NA							

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SAMPLE	CR	CS	EU	HF	IR	LA	LU	MO	NB	ND	NI	RB	SB	SC	SE	SM	SR
37744	12.3	2.4	-0.5	-0.5	-20	2.9	-0.2	94.6	NA	NA	18	-20	7.4	2.3	-5	0.5	7
37745	24.8	2.8	0.6	2	-20	18.6	-0.2	61.9	NA	NA	28	-20	10.6	7.6	-5	3.4	151
37746	37.3	1.3	-0.5	3.5	-20	11	0.3	38.7	NA	NA	19	39.5	6.8	11.6	-5	2.2	216
37747	-5	-1	-0.5	-0.5	-20	0.6	-0.2	153	NA	NA	-10	-20	22.4	0.9	-5	-0.2	2
37749	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
37756	7.5	1.9	0.5	3	-20	38.9	20	-5	NA	NA	-10	73.4	1.3	4.8	-5	5.9	52
37757	252	-1	1.7	6.4	-20	32.2	0.6	-5	NA	NA	90	29	2.3	40.3	-5	8.4	85
37758	22.8	-1	-0.5	1.1	-20	7	-0.2	-5	NA	NA	18	37.1	0.7	6.4	-5	1.3	15
37759	11.2	5.5	0.9	5.4	-20	31.1	0.5	-5	NA	NA	-10	145	1.2	10.9	-5	6.3	135
37761	2220	1.3	-0.5	1.1	-20	7.4	-0.2	-5	NA	NA	676	-20	0.4	17.7	-5	1.3	41
37762	6.8	4.5	1.4	5.6	-20	37.9	-0.2	-5	NA	NA	-10	142	0.8	10.9	-5	6.4	130
37763	8.6	4.9	1.3	5.4	-20	38.5	0.4	-5	NA	NA	-10	111	1.1	14.6	-5	6.6	322
37764	11.7	3	1.2	5.8	-20	41.8	0.4	-5	NA	NA	-10	95.6	1.3	12.3	-5	7.1	577
37765	11.4	1.8	1.2	4.9	-20	42.1	-0.2	-5	NA	NA	-10	96.4	0.6	13.6	-5	7.5	397
37766	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
37767	9.3	1.1	-0.5	3.9	-20	17.8	0.3	-5	NA	NA	-10	-20	0.9	8.5	-5	3.8	245
37768	10.6	1.7	1	4.2	-20	31.1	0.3	-5	NA	NA	-10	79.3	0.7	10.1	-5	4.9	337
37769	555	4.6	1.4	4	-20	27.3	0.6	-5	NA	NA	65	75.5	14.3	44.2	-5	7.5	312
37770	801	8.5	1.2	4	-20	34.7	0.4	18.7	NA	NA	42	109	27.6	59.6	-5	6.9	421
37771	8.9	4.2	1.3	5.1	-20	39.8	0.4	-5	NA	NA	-10	98.7	0.7	11.1	-5	6.7	168
37772	10.8	3	1.4	5.5	-20	52	0.5	-5	NA	NA	-10	43.8	1	13.6	-5	8.7	378
37773	10	2.6	1.4	5.1	-20	38.9	0.4	-5	NA	NA	-10	71.8	0.6	11.5	-5	6.8	293
37774	-5	6.3	1.17	5.71	-20	39.3	0.41	-5	NA	NA	-10	81.4	1.47	7.38	-5	6.32	326
37775	25.4	8.4	2.24	7.73	-20	59.4	0.67	-5	NA	NA	-10	174	0.69	15.5	-5	11.2	286
37776	-5	2.09	1.67	7.36	-20	61	0.61	-5	NA	NA	-10	91.4	0.65	4.73	-5	10.6	207
37777	19.4	8.21	2.5	5.86	-20	67.8	0.56	-5	NA	NA	-10	165	0.46	10.7	-5	12.1	209
37778	19.4	1.39	0.96	5.36	-20	30.7	0.39	-5	NA	NA	-10	85.1	0.25	7.43	-5	5.66	101
37779	62.4	4.17	0.6	6.65	-20	31.8	0.37	-15	NA	NA	12	124	0.8	7.32	-5	4.48	74
37781	204	8.49	1.47	5.23	-20	43.4	0.52	-5	NA	NA	48	153	10.1	19.5	-5	8.23	25
37782	121	8.09	-0.5	3.22	-20	22.4	0.3	-5	NA	NA	-10	139	6.07	16.5	-5	3.7	31
37783	97.8	7.92	1.1	4.21	-20	40.6	0.45	-10	NA	NA	48	146	3.53	19.4	-5	6.78	20
37784	121	5.73	1.45	3.39	-20	28.5	0.45	-5	NA	NA	53	85	0.52	23.1	-5	6.52	102
37785	187	3.38	1.86	6.13	-20	42.7	0.48	-5	NA	NA	63	63.7	-0.2	19.5	-5	9.85	28
37786	160	6.28	1.74	4.56	-20	34.1	0.49	-5	NA	NA	59	103	2.13	22.6	-5	7.83	37
37787	113	6.65	1.27	3.85	-20	31.6	0.43	-5	NA	NA	55	130	1.15	20.3	-5	6.28	90
37788	24.6	1.14	1.83	7.73	-20	37.8	0.47	-5	NA	NA	-10	40.7	0.58	14.9	-5	7.24	284
37789	183	8.55	1.18	5.97	-20	39	0.53	-5	NA	NA	117	160	0.66	24.6	-5	7.71	23
37790	285	8.39	1.26	6.16	-20	44.2	0.61	-5	NA	NA	208	136	2.24	27.5	-5	8.63	31
41774	96.5	3	0.6	5.1	-20	40.5	0.52	-10	NA	NA	NA	76.1	5.8	5.3	-5	5.7	NA
41775	12	2	0.63	2.5	-20	28.8	0.35	-5	NA	NA	NA	61.6	6	3.3	-5	4.22	NA
41776	32.1	12.9	1.4	6.5	-20	53	0.62	-20	NA	NA	NA	208	3.4	12.7	-5	9.34	NA

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SAMPLE	CR	CS	EU	HF	IR	LA	LU	MO	NB	ND	NI	RB	SB	SC	SE	SM	SR
41777	166	6.2	1.31	4.4	-20	43.1	0.45	-5	NA	NA	NA	137	0.7	6.9	-5	6.3	NA
41778	75.6	4.5	1.78	7.4	-20	61.3	0.62	-5	NA	NA	NA	122	1.8	10.4	-5	10.6	NA
41779	39.5	4.4	1.91	8.1	-20	57.6	0.75	-10	NA	NA	NA	102	0.9	12.1	-5	11.3	NA
37793	238	2.1	-0.5	3	-20	2.17	0.51	-10	NA	NA	NA	131	16.7	0.4	-5	1.04	NA
43194	587	-1	-0.5	-0.5	-20	0.54	-0.2	-20	NA	NA	NA	-20	1.4	0.4	-5	0.21	NA
43802	22	16	3.4	6.8	-20	113	0.7	-15	NA	NA	NA	165	6.4	11.6	-5	16.3	NA
43803	9	4	1.7	5.8	-20	45.4	0.5	-10	NA	NA	NA	70	0.7	10	-5	7.6	NA
43804	39	3	1.6	3.1	-20	35.5	0.3	-5	NA	NA	NA	150	0.6	29.3	-5	7.8	NA
43805	11	4	4.2	9.7	-20	109	0.9	-5	NA	NA	NA	110	0.6	12.3	-5	18.7	NA
43806	102	2	1.7	5.8	-20	48.5	0.7	-5	NA	NA	NA	75	0.4	9.4	-5	9.5	NA
43807	15	4	0.6	5.1	-20	38.7	0.5	-5	NA	NA	NA	100	0.8	6.6	-5	5.4	NA
43808	202	-1	0.7	4.6	-20	41.4	0.5	-5	NA	NA	NA	-20	0.5	2.9	-5	4.9	NA
43809	7	6	-0.5	5.8	-20	9.8	0.6	10	NA	NA	NA	175	1.5	2.4	-5	1.8	NA
43810	37	4	0.9	7.5	-20	52.3	0.6	-10	NA	NA	NA	100	1.8	4.2	-5	8.3	NA
43811	12	5	0.5	6.3	-20	17.3	0.6	7	NA	NA	NA	120	0.9	9.1	-5	3.7	NA
43812	62	6	-0.5	6.8	-20	5.8	0.4	-5	NA	NA	NA	150	1	5.5	-5	1.1	NA
43813	9	7	0.7	7.3	-20	25.3	0.6	-10	NA	NA	NA	145	1.4	11.2	-5	3.5	NA
43814	88	3	-0.5	4.5	-20	43.9	0.5	-5	NA	NA	NA	90	1	6.9	-5	4.4	NA
43815	-5	5	1.2	6.5	-20	35.1	0.7	14	NA	NA	NA	120	1.1	8.6	-5	6.7	NA
43816	213	3	2.2	6.2	-20	50.5	0.5	-10	NA	NA	NA	125	0.6	9.1	-5	8.7	NA
43817	7	4	1.8	7.4	-20	48	0.6	-10	NA	NA	NA	100	1	11.9	-5	9	NA
43818	61	3	1.7	6.3	-20	49.2	0.6	-10	NA	NA	NA	65	0.8	10.1	-5	9	NA
43819	-5	5	1.8	6.9	-20	53.4	0.6	-10	NA	NA	NA	110	1	11.7	-5	9.4	NA
43821	68	4	2.3	7.3	-20	63.5	0.7	-5	NA	NA	NA	75	1.2	11.2	-5	11.4	NA
43822	10	6	2	6.7	-20	46.9	0.5	-10	NA	NA	NA	115	0.8	10.5	-5	8.4	NA
43823	23	6	2.4	8.2	-20	89.3	1	-5	NA	NA	NA	145	0.7	6.2	-5	13.9	NA
43824	-5	6	1.9	10.2	-20	63.1	0.8	-10	NA	NA	NA	120	0.7	10.1	-5	11	NA
43825	43	4	2.3	8.7	-20	64.6	0.6	-5	NA	NA	NA	105	1.1	9.2	-5	11.3	NA
43826	18	2	-0.5	5.2	1.9	11.6	0.4	-5	NA	NA	NA	70	0.6	5.7	-5	1.9	NA
43827	11	4	1.7	6.4	1.3	41.5	0.6	-10	NA	NA	NA	90	7.8	9.1	-5	8.2	NA
43828	63	12	2.4	8.4	2.9	67.3	0.8	-10	NA	NA	NA	155	6.6	14.3	-5	13.6	NA
43829	-5	16	2.5	8.6	2.8	70.9	0.8	-10	NA	NA	NA	205	5.9	11.8	-5	12.3	NA
43830	22	3	1.9	6.3	1.2	52.1	0.6	-5	NA	NA	NA	70	1.7	11.5	-5	9.8	NA
43831	8	2	1.7	6.1	0.8	50.6	0.6	-5	NA	NA	NA	50	1.2	10.8	-5	9.5	NA
43832	55	5	1.9	6.7	2.1	43.7	0.6	-5	NA	NA	NA	90	0.9	10.7	-5	9	NA
43833	-5	1	-0.5	4.5	1.2	6.9	0.3	-5	NA	NA	NA	45	0.8	4.4	-5	1.2	NA
43834	94	3	1	6.7	4.8	58	0.6	-5	NA	NA	NA	150	0.9	4.4	-5	9	NA
43835	6	4	1.9	7.1	4.1	73.6	0.6	-5	NA	NA	NA	165	0.7	10.9	-5	12.4	NA
43836	93	3	1.6	7	1	56.2	0.6	-10	NA	NA	NA	40	1.9	6.5	-5	10.3	NA
43837	10	9	1.3	6.4	2.4	46.7	0.6	-10	NA	NA	NA	140	1.7	4.8	-5	7.8	NA
43838	106	9	2.3	7.3	2.3	74.1	0.9	-10	NA	NA	NA	105	1.3	5.8	-5	13	NA

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SAMPLE	CR	CS	EU	HF	IR	LA	LU	MO	NB	ND	NI	RB	SB	SC	SE	SM	SR
43839	-5	6	1.2	6.6	2.4	46.9	0.6	-10	NA	NA	NA	170	0.7	3.3	-5	8.7	NA
43841	38	5	1	6.1	2.2	52.2	0.5	-10	NA	NA	NA	115	0.8	3.5	-5	7.6	NA
131346	175	NA	NA	NA	NA	33	NA	NA	14	29	72	155	NA	22	NA	NA	33
131348	9	NA	NA	NA	NA	34	NA	NA	11	25	8	100	NA	12	NA	NA	248
131357	20	NA	NA	NA	NA	33	NA	NA	10	29	14	69	NA	10	NA	NA	185
131358	4	NA	NA	NA	NA	45	NA	NA	11	33	6	86	NA	4	NA	NA	205
131364	128	NA	NA	NA	NA	40	NA	NA	13	33	73	72	NA	21	NA	NA	38
131365	196	NA	NA	NA	NA	22	NA	NA	11	21	84	49	NA	12	NA	NA	13
131376	368	NA	NA	NA	NA	14	NA	NA	8	15	NA	NA	NA	29	NA	NA	28
131377	117	NA	NA	NA	NA	51	NA	NA	13	37	88	126	NA	20	NA	NA	106
131379	183	NA	NA	NA	NA	32	NA	NA	15	34	58	60	NA	25	NA	NA	27
131381	129	NA	NA	NA	NA	30	NA	NA	12	27	68	84	NA	25	NA	NA	25
131383	10	NA	NA	NA	NA	62	NA	NA	17	43	3	129	NA	2	NA	NA	231
131386	20	NA	NA	NA	NA	46	NA	NA	11	34	4	105	NA	4	NA	NA	165
131387	32	NA	NA	NA	NA	68	NA	NA	13	45	7	271	NA	5	NA	NA	101
131388	25	NA	NA	NA	NA	45	NA	NA	13	45	12	213	NA	24	NA	NA	166
131396	64	NA	NA	NA	NA	40	NA	NA	20	34	24	70	NA	8	NA	NA	70
131396	59	NA	NA	NA	NA	43	NA	NA	19	37	24	70	NA	8	NA	NA	74
131368	6	NA	NA	NA	NA	36	NA	NA	13	39	3	74	NA	20	NA	NA	377
131369	5	NA	NA	NA	NA	52	NA	NA	15	47	4	149	NA	16	NA	NA	156
131374	5	NA	NA	NA	NA	41	NA	NA	13	39	2	47	NA	12	NA	NA	182
131375	3	NA	NA	NA	NA	58	NA	NA	14	54	2	96	NA	9	NA	NA	353
HRC96-1	340	8.78	NA	NA	NA	32	NA	1.2	19.5	32	280	176	1.2	28	NA	NA	62
HRC96-2	190	6.13	NA	NA	NA	28	NA	0.9	13	25	104	115	1	24	NA	NA	211
HRC96-3	19	4.7	NA	NA	NA	50	NA	0.5	14.9	41	17	120	1.4	12	NA	NA	51
HRC96-4	139	7.29	NA	NA	NA	34	NA	0.4	13.3	32	88	148	0.8	25	NA	NA	48
HRC96-5	15	1.34	NA	NA	NA	31	NA	0.3	10.2	31	12	35	0.6	11	NA	NA	233
HRC96-6	11	3.5	NA	NA	NA	51	NA	0.2	10.4	36	6	111	0.5	5	NA	NA	181
HRC96-7	14	0.98	NA	NA	NA	36	NA	0.5	9.7	31	8	33	0.5	9	NA	NA	167
HRC96-8	13	1.66	NA	NA	NA	34	NA	0.3	8.7	29	6	47	0.5	12	NA	NA	248
HRC96-9	17	7.32	NA	NA	NA	71	NA	16.9	15.1	50	18	255	1	11	NA	NA	178
HRC96-10	266	7.35	NA	NA	NA	34	NA	0.9	17.8	33	175	159	1.4	27	NA	NA	118
HRC96-11	53	3.37	NA	NA	NA	21	NA	0.3	7.8	18	32	107	1.6	24	NA	NA	90
HRC96-12	7	2.12	NA	NA	NA	38	NA	0.2	10.9	40	3	59	0.8	16	NA	NA	631
HRC96-13	7	4.22	NA	NA	NA	40	NA	0.3	10.7	42	3	123	1	24	NA	NA	348
HRC96-15	10	6.17	NA	NA	NA	49	NA	1.8	11.9	42	7	129	3	15	NA	NA	45
HRC96-16	10	5.52	NA	NA	NA	33	NA	2.5	9.5	32	11	131	3.4	18	NA	NA	32
HRC96-17	5	0.97	NA	NA	NA	44	NA	0.2	12.7	45	3	48	0.8	15	NA	NA	451
HRC96-18	5	0.42	NA	NA	NA	38	NA	1.21	11.4	39	3	46	0.6	18	NA	NA	297
HRC96-19	5	0.55	NA	NA	NA	125	NA	0.7	13.3	93	3	11	0.4	17	NA	NA	229
HRC96-20	2	3.12	NA	NA	NA	52	NA	0.6	14.1	49	2	97	0.5	8	NA	NA	275

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SAMPLE	CR	CS	EU	HF	IR	LA	LU	MO	NB	ND	NI	RB	SB	SC	SE	SM	SR
HRC96-21	2	2.96	NA	NA	NA	52	NA	0.5	14	45	2	147	0.5	7	NA	NA	311
HRC96-22	3	2.9	NA	NA	NA	63	NA	1.7	12	51	1	118	0.3	8	NA	NA	140
HRC96-23	5	8.32	NA	NA	NA	69	NA	0.3	13.9	50	3	210	0.3	9	NA	NA	30
HRC96-24	145	5.29	NA	NA	NA	24	NA	0.6	14.1	23	53	127	0.7	23	NA	NA	142
HRC96-25	3	1	NA	NA	NA	60	NA	0.2	12.2	37	2	39	0.5	2	NA	NA	232
HRC96-26	8	5.77	NA	NA	NA	59	NA	0.2	14.1	40	4	197	1.5	3	NA	NA	34
HRC96-27	4	3.98	NA	NA	NA	48	NA	0.3	10.8	34	5	127	2	4	NA	NA	264
HRC96-28	26	8.76	NA	NA	NA	45	NA	6.3	16.2	47	23	226	2.1	29	NA	NA	230
HRC96-29	79	11.4	NA	NA	NA	39	NA	5.1	19.6	43	13	295	1.6	22	NA	NA	105
HRC96-30	24	5.86	NA	NA	NA	52	NA	2.2	14.6	54	17	159	0.6	20	NA	NA	228
HRC96-31	24	7.24	NA	NA	NA	49	NA	4.4	11	50	20	195	3.3	22	NA	NA	197
HRC96-33	43	5.39	NA	NA	NA	76	NA	5.1	12.6	63	11	195	3.2	14	NA	NA	88
HRC96-34	67	5.51	NA	NA	NA	63	NA	2.1	19	52	8	200	0.7	10	NA	NA	43
HRC96-35	83	2.91	NA	NA	NA	69	NA	1.2	17	59	11	110	0.5	11	NA	NA	166
HRC96-36	4	1.06	NA	NA	NA	45	NA	0.7	11.6	42	3	75	0.3	9	NA	NA	169
HRC96-37	3	2.11	NA	NA	NA	36	NA	0.2	10.4	32	2	110	0.2	8	NA	NA	128
HRC96-38	3	2.18	NA	NA	NA	43	NA	1.1	11.4	41	2	83	0.5	12	NA	NA	217
HRC96-40	2	3.2	NA	NA	NA	37	NA	1.6	13	36	1	131	0.4	5	NA	NA	182
HRC96-39	3	1.57	NA	NA	NA	40	NA	0.8	12.1	42	1	55	0.5	11	NA	NA	303
HRC96-41	11	3.77	NA	NA	NA	32	NA	0.8	10.7	29	4	113	0.9	11	NA	NA	437
HRC96-42	5	4.05	NA	NA	NA	37	NA	0.2	10.4	34	2	160	1.2	8	NA	NA	52
HRC96-43	5	5.28	NA	NA	NA	35	NA	0.4	10	29	2	138	0.8	7	NA	NA	126
HRC96-44	5	9.48	NA	NA	NA	34	NA	3	10.6	32	2	139	0.7	8	NA	NA	390
HRC96-45	4	4.29	NA	NA	NA	29	NA	8.7	9.1	26	7	172	3.4	8	NA	NA	6
WS97-1	2	0.45	NA	NA	NA	29	NA	0.4	10	27	0	68	0.6	3	NA	NA	232
WS97-2	2	3.3	NA	NA	NA	52	NA	1.3	12	43	1	131	0.8	2	NA	NA	144
WS97-3	2	6.35	NA	NA	NA	44	NA	0.6	16	42	2	226	0.8	2	NA	NA	125
WS97-4	2	3.04	NA	NA	NA	46	NA	0.6	14	46	1	109	1	9	NA	NA	331
WS97-5	3	1.95	NA	NA	NA	48	NA	2.7	16	52	2	95	1.2	11	NA	NA	513
WS97-6	2	3.16	NA	NA	NA	35	NA	0.6	12	40	2	121	1	10	NA	NA	761
WS97-7	3	2.57	NA	NA	NA	34	NA	0.5	8	32	1	76	1	8	NA	NA	272
WS97-8	3	1.57	NA	NA	NA	67	NA	0.4	10	51	2	49	1.4	4	NA	NA	242
WS97-9	2	4.06	NA	NA	NA	38	NA	0.4	13	40	2	150	1.1	12	NA	NA	463
WS97-10	2	4.55	NA	NA	NA	48	NA	0.4	14	49	2	152	1.3	11	NA	NA	409
WS97-11	1	1.5	NA	NA	NA	62	NA	0.4	12	53	2	58	0.6	-2	NA	NA	149
WS97-12	2	4.56	NA	NA	NA	50	NA	0.4	12	44	1	82	0.7	2	NA	NA	285
WS97-13	2	3.72	NA	NA	NA	41	NA	0.3	11	40	2	130	1	3	NA	NA	253
WS97-14	9	7.13	NA	NA	NA	30	NA	0.7	10	27	3	160	1.1	6	NA	NA	5
WS97-15	4	3.27	NA	NA	NA	33	NA	0.5	8	25	1	75	1.3	5	NA	NA	166
WS97-16	3	2.58	NA	NA	NA	22	NA	0.6	7	20	1	71	1.4	7	NA	NA	205
WS97-17	6	4.08	NA	NA	NA	47	NA	0.7	6	38	3	99	1.8	8	NA	NA	254

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SAMPLE	CR	CS	EU	HF	IR	LA	LU	MO	NB	ND	NI	RB	SB	SC	SE	SM	SR
WS97-18	1	7.33	NA	NA	NA	38	NA	0.5	16	36	1	209	1.3	3	NA	NA	7
WS97-19	1	7.11	NA	NA	NA	55	NA	0.9	15	52	2	215	1.6	4	NA	NA	10
WS97-20	17	3.15	NA	NA	NA	19	NA	0.9	9	19	2	73	3.1	11	NA	NA	236
WS97-21	2	8.11	NA	NA	NA	51	NA	0.4	15	37	2	209	1.6	3	NA	NA	35
WS97-22	3	2.57	NA	NA	NA	16	NA	1.1	6	16	0	64	0.9	8	NA	NA	238
WS97-23	3	5.1	NA	NA	NA	44	NA	1.1	12	38	2	127	0.8	6	NA	NA	89
WS97-24	2	6.53	NA	NA	NA	39	NA	0.4	15	37	1	196	1.4	4	NA	NA	15
WS97-25	3	4.38	NA	NA	NA	45	NA	0.3	13	39	2	124	0.9	2	NA	NA	149
WS97-26	4	4.33	NA	NA	NA	97	NA	0.4	14	78	3	143	2.2	3	NA	NA	151
WS97-27A	2	5.26	NA	NA	NA	77	NA	0.3	13	75	2	137	1.4	4	NA	NA	157
WS97-27B	2	7.11	NA	NA	NA	51	NA	0.4	13	45	2	240	3.8	4	NA	NA	20
WS97-28	23	6.29	NA	NA	NA	38	NA	1.3	13	32	8	175	3.9	7	NA	NA	9
WS97-29	170	3.32	NA	NA	NA	22	NA	0.5	12	23	64	70	0.9	20	NA	NA	102
WS97-30	5	3.5	NA	NA	NA	47	NA	0.5	11	38	4	107	0.9	8	NA	NA	168
WS97-31	2	1.19	NA	NA	NA	45	NA	0.9	11	49	2	58	0.6	11	NA	NA	189
WS97-32	2	1.42	NA	NA	NA	50	NA	1.1	13	45	2	73	1.3	10	NA	NA	331
WS97-33	2	4.56	NA	NA	NA	38	NA	0.3	12	36	2	155	2.7	8	NA	NA	336
WS97-34	1	1.92	NA	NA	NA	2	NA	2.5	9	4	1	136	9.9	-2	NA	NA	120
WS97-35	3	2.18	NA	NA	NA	66	NA	0.4	13	43	2	119	1.9	-2	NA	NA	232
WS97-36	3	2.13	NA	NA	NA	43	NA	0.4	15	33	1	144	0.9	2	NA	NA	145
WS97-37	3	1.29	NA	NA	NA	69	NA	0.3	13	48	1	105	0.6	-2	NA	NA	131
WS97-38	22	3.22	NA	NA	NA	39	NA	2	12	29	8	151	1.9	3	NA	NA	114
WS97-39	5	1.87	NA	NA	NA	74	NA	0.4	13	45	2	121	0.5	-2	NA	NA	173
WS97-40	3	1.48	NA	NA	NA	52	NA	0.2	14	36	1	119	0.7	-2	NA	NA	137
WS97-41	1	2.29	NA	NA	NA	22	NA	0.6	15	25	1	121	1.7	7	NA	NA	47
WS97-42	3	1.46	NA	NA	NA	15	NA	0.9	8	12	1	56	2.7	-2	NA	NA	70
WS97-43	2	3.56	NA	NA	NA	42	NA	0.7	11	35	2	141	1.7	5	NA	NA	11
WS97-44	2	2.1	NA	NA	NA	41	NA	0.4	12	41	2	81	2.1	6	NA	NA	294
WS97-45	30	4.4	NA	NA	NA	41	NA	1.5	15	38	6	208	2.2	8	NA	NA	16
WS97-46	3	1.35	NA	NA	NA	52	NA	1.1	11	47	1	72	2.1	4	NA	NA	154
P37920	NA	NA	NA	NA	NA	NA	NA	NA	17	NA	NA	75	NA	NA	NA	NA	23
P37921	NA	NA	NA	NA	NA	NA	NA	NA	11	NA	NA	151	NA	NA	NA	NA	314
P37922	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	NA	143	NA	NA	NA	NA	86
P37923	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	NA	113	NA	NA	NA	NA	244
P37924	NA	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	226	NA	NA	NA	NA	23
P37925	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	201	NA	NA	NA	NA	20
P37926	NA	NA	NA	NA	NA	NA	NA	NA	14	NA	NA	79	NA	NA	NA	NA	198
P37927	NA	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	153	NA	NA	NA	NA	155
P37928	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	NA	152	NA	NA	NA	NA	302
P37929	NA	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	158	NA	NA	NA	NA	243
P37930	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	NA	188	NA	NA	NA	NA	101

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SAMPLE	CR	CS	EU	HF	IR	LA	LU	MO	NB	ND	NI	RB	SB	SC	SE	SM	SR
P37931	NA	14	NA	NA	172	NA	NA	NA	NA	268							
P37932	NA	14	NA	NA	175	NA	NA	NA	NA	359							
P37933	NA	15	NA	NA	122	NA	NA	NA	NA	200							
P37934	NA	12	NA	NA	209	NA	NA	NA	NA	133							
P37935	NA	12	NA	NA	16	NA	NA	NA	NA	170							
P37936	NA	13	NA	NA	75	NA	NA	NA	NA	124							

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SAMPLE	TA	TE	TH	TL	U	V	W	Y	YB	ZR	SIO2	TI	AL2O3	FE2O3	MGO	MNO	CAO
37744	-1	NA	2	NA	-2	21	-2	NA	-0.5	NA	NA	610	1.28	40.76	0.08	0.01	-0.07
37745	-1	NA	6.2	NA	2.8	45	-2	NA	1.2	NA	NA	1810	8.46	29.17	0.68	0.01	0.36
37746	-1	NA	12.5	NA	5.2	83	-2	NA	2.2	NA	NA	2960	13.11	14.19	1.03	0.01	0.52
37747	-1	NA	1.6	NA	-2	14	-2	NA	-0.5	NA	NA	380	0.34	50.48	0.03	0	-0.07
37749	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
37756	-1	NA	9.5	NA	-2	39	-2	NA	1.9	NA	NA	1535	7.84	3.52	4.03	0.02	1.48
37757	3.5	NA	5.9	NA	-2	339	-2	NA	4.2	NA	NA	21100	14.92	16.59	5.22	0.08	0.92
37758	-1	NA	4.8	NA	-2	29	-2	NA	0.6	NA	NA	995	3.29	3.1	0.65	0.01	0.42
37759	-1	NA	18.1	NA	3.6	83	-2	NA	3.5	NA	NA	3125	13.47	4.38	3.17	0.08	1.66
37761	-1	NA	2.3	NA	-2	109	-2	NA	0.8	NA	NA	1160	7.76	6.35	28.38	0.04	1.26
37762	1.7	NA	19.1	NA	4	79	-2	NA	3.3	NA	NA	3050	15.41	3.93	2.69	0.07	0.6
37763	2.3	NA	18.9	NA	4.1	111	-2	NA	2.9	NA	NA	3975	17.57	6.88	3.23	0.09	1.47
37764	-1	NA	18.7	NA	4.3	92	-2	NA	3.5	NA	NA	3480	14.15	6.38	1.62	0.09	2.94
37765	1.7	NA	16.6	NA	2.6	103	-2	NA	3.5	NA	NA	3210	16.19	5.29	2.21	0.08	1.65
37766	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
37767	3.7	NA	13.8	NA	3	70	-2	NA	2.4	NA	NA	2525	14.51	4.29	1.39	0.1	0.62
37768	1.3	NA	14.5	NA	4.3	61	-2	NA	2.3	NA	NA	2615	13.11	4.45	1.64	0.06	1.25
37769	1.2	NA	16.6	NA	3.9	268	-2	NA	3.8	NA	NA	4275	19.87	7.32	2.11	0.08	1.47
37770	1.4	NA	17.2	NA	2.4	317	-2	NA	3	NA	NA	6105	22.31	9.37	1.76	0.06	1.3
37771	-1	NA	17.9	NA	4.2	86	-2	NA	3.2	NA	NA	2950	15.38	5.62	3.02	0.07	1.23
37772	2.4	NA	18.1	NA	2.5	110	-2	NA	3.6	NA	NA	3275	16.3	4.48	1.31	0.09	1.76
37773	-1	NA	15.4	NA	2.7	98	-2	NA	3.2	NA	NA	3110	15.45	5.58	1.58	0.1	1.64
37774	2.86	-5	19.2	NA	3.07	28	-2	NA	2.84	NA	NA	2180	12.9	3.13	0.93	0.05	0.87
37775	4.41	-5	24.6	NA	3.96	75	-2	NA	4.37	NA	NA	3760	12.26	7.12	2.45	0.1	2.06
37776	3.35	-5	21.5	NA	-2	-5	-2	NA	4.11	NA	NA	2030	11.07	2.42	0.73	0.03	0.59
37777	2.76	-5	17.2	NA	2.4	31	-2	NA	3.88	NA	NA	2770	11.81	3.88	0.97	0.03	0.84
37778	1.84	-5	19.1	NA	2.46	22	-2	NA	2.6	NA	NA	2310	12.81	2.65	0.63	0.03	0.6
37779	3.03	-5	33.3	NA	9.52	42	-2	NA	2.33	NA	NA	2760	14.09	3.52	2.49	0.04	0.26
37781	1.72	-5	16	NA	2.25	89	-2	NA	3.35	NA	NA	3100	14.55	4.9	2.69	0.01	0.12
37782	1.09	-5	9.81	NA	4.47	94	-2	NA	2.04	NA	NA	3820	10.64	2.27	0.74	0	0.01
37783	1.55	-5	14.1	NA	6.89	133	-2	NA	3.03	NA	NA	2780	11.16	4.83	2.04	0.07	0.02
37784	1.54	-5	9.79	NA	-2	153	-2	NA	3	NA	NA	4520	12.34	7.22	3.53	0.1	3.5
37785	1.18	-5	9.89	NA	-2	133	-2	NA	3.03	NA	NA	4080	12.34	6.02	3.68	0.02	0.02
37786	2.25	-5	10	NA	-2	123	-2	NA	3.27	NA	NA	4940	13.32	5.98	2.82	0.01	0.31
37787	1.09	-5	11	NA	3.49	110	-2	NA	2.99	NA	NA	3360	12.51	5.42	3.27	0.06	3.3
37788	2.59	-5	14.7	NA	-2	36	-2	NA	3.09	NA	NA	4410	16.51	2.69	0.87	0.06	0.44
37789	1.5	-5	11.9	NA	2.66	120	-2	NA	3.55	NA	NA	3360	18.08	7.38	6.2	0.03	0.12
37790	2.2	-5	13.7	NA	-2	123	-2	NA	3.9	NA	NA	3370	17.32	8.52	7.28	0.06	0.16
41774	-1	NA	17.5	NA	5.7	NA	-2	NA	3.45	175	NA	1163	NA	2.99	NA	NA	NA
41775	1	NA	8.1	NA	2.1	NA	-2	NA	2.44	86	NA	710	NA	16.87	NA	NA	NA
41776	1.9	NA	20.1	NA	13.3	NA	-2	NA	4.13	256	NA	3038	NA	3.66	NA	NA	NA

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SAMPLE	TA	TE	TH	TL	U	V	W	Y	YB	ZR	SIO2	TI	AL2O3	FE2O3	MGO	MNO	CAO
41777	-1	NA	11	NA	3.2	NA	-2	NA	3.04	170	NA	1719	NA	2.65	NA	NA	NA
41778	1.6	NA	22.3	NA	5.7	NA	-2	NA	4.25	254	NA	2633	NA	3.02	NA	NA	NA
41779	2.6	NA	24.5	NA	6.5	NA	-2	NA	4.76	288	NA	2832	NA	2.67	NA	NA	NA
37793	1.9	NA	23.5	NA	8	NA	-2	NA	3.43	62	NA	184	NA	1.8	NA	NA	NA
43194	-1	NA	0.5	NA	-2	NA	-2	NA	-0.5	10	NA	84	NA	4.78	NA	NA	NA
43802	2	-20	19.6	NA	9	NA	-2	NA	5.1	245	NA	2737	NA	2.33	NA	NA	-1.34
43803	2	-20	16	NA	5	NA	-2	NA	3.2	217	NA	2813	NA	3.39	NA	NA	-1.34
43804	1	-20	11.2	NA	-2	NA	-2	NA	2.6	86	NA	3589	NA	10.55	NA	NA	2.68
43805	-1	-20	18.6	NA	5	NA	-2	NA	5.9	352	NA	2953	NA	3.09	NA	NA	-1.34
43806	2	-20	16.3	NA	5	NA	-2	NA	4.8	204	NA	2525	NA	3.16	NA	NA	-1.34
43807	-1	-20	18.1	NA	7	NA	-2	NA	3.5	166	NA	1600	NA	2.07	NA	NA	-1.34
43808	3	-20	18	NA	5	NA	-2	NA	2.8	152	NA	1203	NA	0.83	NA	NA	-1.34
43809	-1	-20	23.1	NA	7	NA	-2	NA	3.6	194	NA	1203	NA	1.97	NA	NA	-1.34
43810	2	-20	22.9	NA	6	NA	-2	NA	3.9	256	NA	2005	NA	1.46	NA	NA	-1.34
43811	-1	-20	19.7	NA	5	NA	-2	NA	3.8	221	NA	2595	NA	2.03	NA	NA	-1.34
43812	1	-20	15.6	NA	4	NA	2	NA	2.5	229	NA	2436	NA	0.56	NA	NA	-1.34
43813	2	-20	22.3	NA	7	NA	-2	NA	4.3	261	NA	2960	NA	2.47	NA	NA	-1.34
43814	-1	-20	14.8	NA	4	NA	-2	NA	2.8	146	NA	1573	NA	0.33	NA	NA	-1.34
43815	-1	-20	17.8	NA	6	NA	-2	NA	4.4	220	NA	2395	NA	0.46	NA	NA	-1.34
43816	1	-20	18.3	NA	5	NA	-2	NA	3.6	212	NA	2348	NA	2.89	NA	NA	2.68
43817	2	-20	23.3	NA	7	NA	-2	NA	3.9	265	NA	3312	NA	2.76	NA	NA	-1.34
43818	-1	-20	20.3	NA	7	NA	-2	NA	3.8	226	NA	2935	NA	2.8	NA	NA	-1.34
43819	2	-20	22.2	NA	5	NA	-2	NA	4	253	NA	3211	NA	3.2	NA	NA	-1.34
43821	3	-20	23	NA	7	NA	-2	NA	4.7	255	NA	3189	NA	2.97	NA	NA	1.47
43822	1	-20	21.8	NA	6	NA	-2	NA	3.2	228	NA	2811	NA	29.46	NA	NA	1.74
43823	1	-20	30.5	NA	8	NA	-2	NA	6.5	249	NA	1524	NA	1.83	NA	NA	-1.34
43824	1	-20	23.6	NA	6	NA	-2	NA	5.4	351	NA	2335	NA	1.67	NA	NA	-1.34
43825	2	-20	20.8	NA	5	NA	-2	NA	4.6	307	NA	1856	NA	3.29	NA	NA	-1.34
43826	-1	-20	11.8	NA	3	NA	-2	NA	2.4	187	NA	2000	NA	0.3	NA	NA	-1.34
43827	-1	-20	20.3	NA	7	NA	-2	NA	3.6	235	NA	2954	NA	2.63	NA	NA	-1.34
43828	-1	-20	22.8	NA	7	NA	-2	NA	4.9	288	NA	3279	NA	3.07	NA	NA	2.54
43829	1	-20	23.5	NA	7	NA	-2	NA	4.9	301	NA	3738	NA	3.32	NA	NA	-1.34
43830	-1	-20	17.7	NA	5	NA	-2	NA	3.7	225	NA	2830	NA	2.97	NA	NA	1.34
43831	2	-20	17.7	NA	5	NA	-2	NA	3.6	228	NA	2870	NA	3.23	NA	NA	-1.34
43832	1	-20	19.2	NA	5	NA	-2	NA	3.5	241	NA	3043	NA	2.92	NA	NA	-1.34
43833	-1	-20	10.1	NA	-2	NA	-2	NA	2.1	158	NA	1698	NA	0.19	NA	NA	-1.34
43834	2	-20	25.2	NA	6	NA	-2	NA	3.7	214	NA	1585	NA	1.66	NA	NA	-1.34
43835	2	-20	22.4	NA	5	NA	-2	NA	4	253	NA	2743	NA	2.38	NA	NA	-1.34
43836	2	-20	23.9	NA	7	NA	-2	NA	4.2	249	NA	1927	NA	1.85	NA	NA	-1.34
43837	-1	-20	22.8	NA	6	NA	-2	NA	3.5	205	NA	1819	NA	2.38	NA	NA	1.47
43838	2	-20	26.6	NA	8	NA	-2	NA	5.7	235	NA	2090	NA	2.69	NA	NA	2.68

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SAMPLE	TA	TE	TH	TL	U	V	W	Y	YB	ZR	SiO2	Ti	AL2O3	FE2O3	MGO	MNO	CAO
43839	1	-20	26.8	NA	7	NA	-2	NA	4	215	NA	1450	NA	2.03	NA	NA	-1.34
43841	2	-20	23.5	NA	5	NA	-2	NA	3.3	202	NA	1656	NA	1.82	NA	NA	-1.34
131346	NA	NA	13	NA	NA	159	NA	36	NA	200	62.3	4076.74	17.54	6.33	3.56	0.01	0.02
131348	NA	NA	20	NA	NA	60	NA	27	NA	235	66.47	2757.79	16.99	4.28	1.95	0.03	0.26
131357	NA	NA	17	NA	NA	50	NA	31	NA	189	70.39	2398.08	14.68	3.38	1.33	0.03	0.14
131358	NA	NA	26	NA	NA	11	NA	29	NA	237	74.64	1378.9	12.99	1.82	0.92	0.01	0.17
131364	NA	NA	12	NA	NA	82	NA	35	NA	231	62.72	3896.88	15.86	6.49	6.19	0.03	0.06
131365	NA	NA	8	NA	NA	77	NA	26	NA	163	78.87	3117.51	8.77	3.68	3.76	0.02	0.04
131376	NA	NA	NA	NA	NA	228	NA	NA	NA	172	72.85	6594.72	9.9	7.41	3.45	0.04	0.04
131377	NA	NA	14	NA	NA	155	NA	26	NA	147	57.39	4136.69	13.12	8.82	3.71	0.05	3.09
131379	NA	NA	10	NA	NA	188	NA	39	NA	212	69.22	6175.06	12.41	6.69	4.43	0.02	0.02
131381	NA	NA	9	NA	NA	195	NA	37	NA	120	61.83	5035.97	12.14	11.96	3.98	0.39	0.55
131383	NA	NA	41	NA	NA	7	NA	33	NA	134	74.47	1019.19	14.99	0.88	0.52	-0.01	0.21
131386	NA	NA	26	NA	NA	23	NA	30	NA	108	80.36	1199.04	10.93	1.09	0.68	-0.01	0.08
131387	NA	NA	39	NA	NA	29	NA	36	NA	174	68.14	1858.51	16.93	2.04	1.19	-0.01	0.01
131388	NA	NA	14	NA	NA	156	NA	38	NA	244	57.67	3956.84	22.17	4.42	2.46	0.02	0.16
131396	NA	NA	38	NA	NA	64	NA	28	NA	230	72.81	3117.51	14.14	3.41	1.86	0.04	0.13
131396	NA	NA	38	NA	NA	60	NA	29	NA	229	72.64	3057.55	13.62	3.26	1.75	0.04	0.14
131368	NA	NA	14	NA	NA	59	NA	43	NA	311	64	4736.21	16.91	4.95	1.41	0.1	1.14
131369	NA	NA	21	NA	NA	50	NA	50	NA	336	66.1	4316.55	16.7	5.02	1.75	0.04	0.12
131374	NA	NA	19	NA	NA	32	NA	37	NA	252	69.56	3117.51	14.93	3.31	0.93	0.05	0.63
131375	NA	NA	20	NA	NA	10	NA	53	NA	282	71.59	2158.27	14.33	2.25	0.64	0.08	0.86
HRC96-1	NA	NA	13	0.8	2.94	171	NA	38	NA	230	52.95	4856.12	16.47	7.79	6.76	0.25	1.82
HRC96-2	NA	NA	12	0.6	2.56	149	NA	43	NA	175	55.29	3896.88	14.28	6.72	5.58	0.14	4.38
HRC96-3	NA	NA	22.5	0.5	4.99	27	NA	43	NA	273	73.81	1978.42	14.27	2.73	1	0.01	0.01
HRC96-4	NA	NA	12.9	0.6	2.89	165	NA	32	NA	205	59.23	4136.69	17.82	7.27	4.81	0.03	0.08
HRC96-5	NA	NA	19.1	-0.5	4.28	56	NA	32	NA	227	69.95	2637.89	15.25	3.41	1.66	0.01	0.2
HRC96-6	NA	NA	25.4	-0.5	5.93	16	NA	33	NA	211	76.28	1438.85	12.56	1.4	1.27	0.01	0.2
HRC96-7	NA	NA	19.3	-0.5	4.33	38	NA	30	NA	207	74.56	2098.32	12.9	2.73	1.44	0.02	0.16
HRC96-8	NA	NA	15.1	-0.5	3.42	56	NA	30	NA	215	70.18	2817.75	14.98	3.62	1.52	0.03	0.3
HRC96-9	NA	NA	30.8	1.2	7.02	53	NA	46	NA	282	58.52	2937.65	19.37	4.98	3.76	0.03	0.08
HRC96-10	NA	NA	14.6	0.6	3.06	172	NA	39	NA	249	50.43	4736.21	15.37	6.92	7.29	0.1	4.85
HRC96-11	NA	NA	6.6	0.5	1.81	161	NA	24	NA	133	62.27	3836.93	15.64	6.71	4.95	0.03	0.05
HRC96-12	NA	NA	15.3	-0.5	3.25	52	NA	43	NA	302	83.72	4376.5	16.04	5.07	1.67	0.09	2.79
HRC96-13	NA	NA	10.5	0.6	2.42	64	NA	33	NA	287	66.36	4796.16	16.49	5.16	1.59	0.04	0.37
HRC96-15	NA	NA	18.4	0.7	4.26	51	NA	45	NA	230	68.75	3597.12	13.01	5.93	2.33	0.16	0.24
HRC96-16	NA	NA	11.9	0.7	3.55	47	NA	42	NA	202	76.72	3297.36	12.44	1.59	0.92	0.01	0.32
HRC96-17	NA	NA	16.9	-0.5	3.58	50	NA	49	NA	317	64.47	4316.55	16.06	5.21	1.65	0.1	2.33
HRC96-18	NA	NA	14.7	-0.5	1.03	54	NA	42	NA	294	65.3	4316.55	16.06	4.81	1.28	0.1	1.22
HRC96-19	NA	NA	18.8	-0.5	2	50	NA	102	NA	327	66.22	4136.89	16.2	4.83	1.27	0.15	0.59
HRC96-20	NA	NA	23.6	0.5	5.07	10	NA	43	NA	288	74.35	2158.27	14.04	1.97	0.56	0.02	0.15

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All White Spur Rock Chip Samples

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SAMPLE	TA	TE	TH	TL	U	V	W	Y	YB	ZR	SiO2	Ti	AL2O3	FE2O3	MGO	MNO	CAO
HRC96-21	NA	NA	22.4	0.8	5	8	NA	49	NA	273	73.93	2038.37	13.23	2.27	0.64	0.08	0.91
HRC96-22	NA	NA	23.5	-0.5	5.21	14	NA	43	NA	239	73.99	1738.61	14.17	2.24	0.53	0.04	0.13
HRC96-23	NA	NA	24	1.1	5.42	39	NA	35	NA	285	65.84	2817.75	19.69	2.67	1.07	0.01	0.02
HRC96-24	NA	NA	10.6	0.6	2.47	198	NA	34	NA	157	55.25	4736.21	12.45	6.77	4.88	0.14	5.26
HRC96-25	NA	NA	32.9	-0.5	6.72	3	NA	29	NA	109	78.82	839.329	12.35	1.23	0.29	0.04	0.22
HRC96-26	NA	NA	30.9	1	6.07	13	NA	28	NA	134	75.66	1079.14	14.52	1.15	0.89	-0.01	0.02
HRC96-27	NA	NA	31.1	0.7	6.76	8	NA	27	NA	136	75.66	1019.19	13.8	1.24	0.69	0.01	0.13
HRC96-28	NA	NA	15.9	2.4	14.5	184	NA	33	NA	281	51.54	5335.73	25.73	4.43	2.92	0.03	0.39
HRC96-29	NA	NA	27.7	3.1	14	435	NA	30	NA	395	56.08	5335.73	25.11	2.9	2.93	0.02	0.03
HRC96-30	NA	NA	14	1.6	4.86	190	NA	36	NA	260	54.01	4256.6	25.64	2.87	2.6	0.02	0.34
HRC96-31	NA	NA	12.6	2.6	14.3	152	NA	38	NA	225	59.64	3597.12	21.49	4.25	2.09	0.02	0.19
HRC96-33	NA	NA	16.3	2	11.6	213	NA	32	NA	227	71.29	3177.46	15.32	1.98	1.91	0.02	0.04
HRC96-34	NA	NA	35.1	1.4	11.5	84	NA	29	NA	285	67.3	3597.12	15.91	3.85	3.25	0.04	0.05
HRC96-35	NA	NA	29.2	0.8	8.6	75	NA	49	NA	277	72.27	3237.41	13.29	3.23	2.47	0.03	0.34
HRC96-36	NA	NA	22.4	-0.5	5.41	47	NA	32	NA	209	72.31	2577.94	14.22	2.82	0.77	0.03	0.39
HRC96-37	NA	NA	19.3	-0.5	5.4	39	NA	29	NA	188	72.89	2338.13	13.21	2.82	0.76	0.04	1.22
HRC96-38	NA	NA	21.1	-0.5	5.86	37	NA	42	NA	267	68.29	3297.36	15.33	3.95	1.36	0.07	1.25
HRC96-40	NA	NA	22.2	-0.5	6	15	NA	31	NA	263	72.71	2158.27	14.03	2.51	1.02	0.03	0.41
HRC96-39	NA	NA	18.8	-0.5	5.01	34	NA	36	NA	241	71.26	3117.51	14.19	3.45	0.97	0.06	1.49
HRC96-41	NA	NA	17.6	0.6	5.06	91	NA	30	NA	205	64.31	3357.31	15.29	5.52	2.19	0.1	3.43
HRC96-42	NA	NA	21	0.8	5.01	35	NA	31	NA	207	74.46	2218.23	14.2	2.59	0.4	0.01	0.04
HRC96-43	NA	NA	19.6	0.6	5.1	32	NA	26	NA	200	76.82	2098.32	12.06	2.53	0.98	0.01	0.09
HRC96-44	NA	NA	18.9	0.8	4.61	33	NA	28	NA	195	72.27	2038.37	13.63	2.87	1.02	0.06	2.2
HRC96-45	NA	NA	15.5	3.8	4.99	39	NA	20	NA	169	74.1	1798.56	11.82	4.71	0.51	0.01	0.01
WS97-1	NA	NA	11.7	-0.5	3.46	6	NA	20	NA	165	76.63	1139.09	12.36	1.42	0.35	0.04	0.24
WS97-2	NA	NA	12.4	-0.5	4.02	4	NA	32	NA	177	76.88	1318.95	11.89	1.45	0.42	0.04	0.88
WS97-3	NA	NA	20.8	-0.5	5.65	6	NA	38	NA	235	70.37	1678.66	15.16	2.26	0.79	0.05	0.51
WS97-4	NA	NA	14.5	-0.5	4.54	32	NA	34	NA	236	70.89	2817.75	14.23	3.41	0.84	0.08	1.21
WS97-5	NA	NA	16.4	-0.5	5	42	NA	45	NA	306	66.01	3537.17	16.27	4.58	0.95	0.09	2.23
WS97-6	NA	NA	11.4	-0.5	3.1	32	NA	36	NA	228	69.97	2937.65	14.17	2.57	0.54	0.06	3.51
WS97-7	NA	NA	8.56	0.7	2.45	32	NA	24	NA	156	73.21	2038.37	14.03	2.82	0.7	0.05	0.43
WS97-8	NA	NA	9.36	-0.5	3.44	15	NA	34	NA	177	76.41	1438.85	12.54	2.37	0.47	0.04	0.2
WS97-9	NA	NA	12.4	0.5	4.2	38	NA	34	NA	254	68.53	3177.46	15.73	3.74	0.75	0.07	1.59
WS97-10	NA	NA	11	0.6	3.52	41	NA	43	NA	252	68.28	3177.46	16.06	3.19	0.69	0.06	2.36
WS97-11	NA	NA	12.2	0.5	4.24	2	NA	33	NA	197	77.1	1378.9	12.55	1.2	0.26	0.03	0.15
WS97-12	NA	NA	10.4	-0.5	3.82	6	NA	35	NA	183	78.84	1378.9	10.8	1.69	1.03	0.05	1.18
WS97-13	NA	NA	11.7	0.7	3.68	12	NA	35	NA	224	74.66	1738.61	12.7	1.82	0.38	0.09	1.38
WS97-14	NA	NA	11.9	0.7	3.87	13	NA	29	NA	179	77.06	1378.9	12.86	1.68	0.94	0.01	0.01
WS97-15	NA	NA	11.3	0.6	2.77	23	NA	23	NA	158	76.63	1738.61	12.82	2.01	0.49	0.03	0.18
WS97-16	NA	NA	10.5	0.6	1.89	34	NA	17	NA	121	73.51	2158.27	15.23	1.8	0.44	0.01	0.13
WS97-17	NA	NA	7.06	0.5	2.18	42	NA	29	NA	142	69.96	2817.75	15.74	2.9	0.72	0.07	0.18

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All White Spur Rock Chip Samples

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SAMPLE	TA	TE	TH	TL	U	V	W	Y	YB	ZR	SiO2	Ti	AL2O3	FE2O3	MGO	MNO	CAO
WS97-18	NA	NA	13.2	-0.5	4.5	5	NA	27	NA	229	75.32	1798.56	13.86	1.54	1.02	0.01	0.01
WS97-19	NA	NA	13.9	-0.5	4.83	10	NA	32	NA	271	73.35	2038.37	15	1.51	0.97	0.01	0.01
WS97-20	NA	NA	10.7	0.7	3.61	54	NA	24	NA	148	72.03	2817.75	14.85	3.11	0.56	0.02	0.22
WS97-21	NA	NA	16.7	0.7	5.44	7	NA	35	NA	266	72.83	1918.47	14.95	2	1.09	0.02	0.02
WS97-22	NA	NA	6.15	0.5	1.32	40	NA	11	NA	133	77.52	2517.99	13.11	0.83	0.26	0.01	0.13
WS97-23	NA	NA	12.5	0.5	4.17	15	NA	48	NA	235	73.37	1738.61	13.79	3.2	1.27	0.02	0.05
WS97-24	NA	NA	14.7	0.5	4.5	7	NA	31	NA	248	76.1	1918.47	14.2	1.18	0.9	0.01	0.01
WS97-25	NA	NA	14.1	0.5	4.73	6	NA	33	NA	218	74.63	1558.75	12.89	1.7	0.64	0.05	1.19
WS97-26	NA	NA	17.5	0.5	4.67	8	NA	45	NA	234	74.32	1738.61	13.15	2.29	0.66	0.14	0.32
WS97-27A	NA	NA	16.6	0.5	4.22	11	NA	36	NA	253	74.2	1978.42	14.1	2.18	0.55	0.03	0.13
WS97-27B	NA	NA	13.5	0.7	4.18	12	NA	42	NA	244	75.08	1858.51	13.32	2.05	0.71	0.21	0.5
WS97-28	NA	NA	12.6	0.7	3.98	35	NA	29	NA	190	74.85	1918.47	13.16	2.14	1.3	0.04	0.14
WS97-29	NA	NA	8.1	0.6	1.54	128	NA	29	NA	145	65.35	4378.5	10.12	6.87	3.8	0.11	3.08
WS97-30	NA	NA	11.6	0.6	3.19	36	NA	35	NA	221	71.05	2637.89	13.17	3.68	0.54	0.09	1.8
WS97-31	NA	NA	13.9	0.5	3.76	31	NA	36	NA	222	72.47	2757.79	13.48	3.07	0.54	0.06	1.23
WS97-32	NA	NA	13.9	-0.5	3.93	34	NA	41	NA	239	70.95	2877.7	14.36	3.07	0.52	0.07	2.21
WS97-33	NA	NA	10.3	0.5	3.81	37	NA	44	NA	214	70.43	2577.94	13.16	2.89	0.81	0.08	3.54
WS97-34	NA	NA	14.8	1.3	6.81	-1.5	NA	27	NA	63	80.61	179.856	8.95	1.77	0.16	0.02	0.01
WS97-35	NA	NA	17.7	1	5.62	6	NA	31	NA	112	77.21	899.281	11.79	1.33	0.41	0.06	0.85
WS97-36	NA	NA	26.3	0.9	7.41	6	NA	29	NA	133	75.21	1079.14	13.84	0.89	0.21	0.01	0.07
WS97-37	NA	NA	21	0.7	6.42	3	NA	26	NA	99	79.28	719.424	11.6	0.75	0.11	0.01	0.06
WS97-38	NA	NA	20.2	0.8	7.1	26	NA	28	NA	102	78.18	1199.04	10.94	1.22	0.26	0.13	0.21
WS97-39	NA	NA	20.9	0.7	6.59	7	NA	35	NA	104	77.99	839.329	12.05	0.8	0.32	0.02	0.34
WS97-40	NA	NA	23.6	0.7	6.03	3	NA	29	NA	109	77.77	839.329	12.12	1	0.18	0.04	0.25
WS97-41	NA	NA	17.8	0.8	5.65	21	NA	35	NA	274	72.79	2517.99	13.4	3.83	3.16	0.09	0.14
WS97-42	NA	NA	7.67	0.5	3.68	4	NA	19	NA	129	84.92	899.281	7.33	1.86	1.23	0.04	0.01
WS97-43	NA	NA	14	0.6	4.6	8	NA	28	NA	204	79.62	1258.99	11.69	1.42	0.54	0.01	0.01
WS97-44	NA	NA	14.5	0.6	3.32	10	NA	36	NA	249	75.69	1918.47	13.33	2.45	0.64	0.02	0.14
WS97-45	NA	NA	17.3	0.7	5.15	44	NA	36	NA	182	71.78	1978.42	15.12	2.62	1.32	0.03	0.01
WS97-46	NA	NA	14.4	0.6	4.15	9	NA	36	NA	200	78.14	1378.9	11.89	1.77	0.46	0.03	0.09
P37920	NA	NA	NA	NA	NA	44	NA	38	NA	290	66.4	3417.27	19.19	2.24	0.45	0.01	-0.01
P37921	NA	NA	NA	NA	NA	6	NA	29	NA	142	74.6	779.376	13.42	1.74	0.21	0.03	0.08
P37922	NA	NA	NA	NA	NA	34	NA	24	NA	242	79.1	2637.89	13.21	0.28	0.47	0.01	0.03
P37923	NA	NA	NA	NA	NA	32	NA	33	NA	267	72.2	3117.51	15.15	2.25	0.36	0.01	0.13
P37924	NA	NA	NA	NA	NA	28	NA	40	NA	299	71	3417.27	16.27	2.68	0.59	0.02	0.01
P37925	NA	NA	NA	NA	NA	42	NA	72	NA	283	65.7	3357.31	17.1	5.62	0.86	0.03	0.02
P37926	NA	NA	NA	NA	NA	20	NA	29	NA	246	78.6	2458.03	11.04	1.68	0.38	0.02	0.87
P37927	NA	NA	NA	NA	NA	13	NA	32	NA	289	77.1	2697.84	11.77	1.74	0.37	0.02	0.43
P37928	NA	NA	NA	NA	NA	30	NA	27	NA	248	73.1	3057.55	13.72	2.62	0.44	0.04	1.85
P37929	NA	NA	NA	NA	NA	22	NA	27	NA	261	78.5	3177.46	10.6	1.84	0.31	0.04	1.45
P37930	NA	NA	NA	NA	NA	-5	NA	17	NA	94	77.3	659.472	12.57	0.25	0.01	-0.01	0.01

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All White Spur Rock Chip Samples

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SAMPLE	TA	TE	TH	TL	U	V	W	Y	YB	ZR	SIO2	TI	AL2O3	FE2O3	MGO	MNO	CAO
P37931	NA	NA	NA	NA	NA	31	NA	33	NA	268	69.7	3297.36	14.95	3	0.77	0.04	1.68
P37932	NA	NA	NA	NA	NA	31	NA	46	NA	268	70.7	3057.55	13.97	3.67	0.9	0.1	3.62
P37933	NA	NA	NA	NA	NA	45	NA	38	NA	271	71.3	3117.51	14.61	3.27	0.84	0.04	0.96
P37934	NA	NA	NA	NA	NA	-5	NA	26	NA	72	80.6	179.856	9.47	1.16	0.02	0.02	0.12
P37935	NA	NA	NA	NA	NA	-5	NA	61	NA	111	79.4	599.52	12.42	0.37	0.04	0.01	0.21
P37936	NA	NA	NA	NA	NA	87	NA	30	NA	159	55.9	3717.03	12.34	6.77	9.08	0.13	2.86

All White Spur Rock Chip Samples

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SAMPLE	K2O	NA2O	P2O5	LOI	TOTAL	TOTALC	CO2	S
37744	-0.24	0.13	-0.02	NA	NA	NA	NA	31.1
37745	0.72	3.1	0.06	NA	NA	NA	NA	20.4
37746	1.57	4.12	0.11	NA	NA	NA	NA	8.9
37747	-0.24	-0.01	-0.02	NA	NA	NA	NA	4.11
37749	NA	NA	NA	NA	NA	NA	NA	NA
37756	1.57	0.03	0.05	NA	NA	NA	NA	0.07
37757	1.08	2.9	0.23	NA	NA	NA	NA	0.01
37758	0.72	0.03	0.03	NA	NA	NA	NA	0.01
37759	3.01	1.82	0.13	NA	NA	NA	NA	0.09
37761	-0.24	-0.01	0.03	NA	NA	NA	NA	0.01
37762	2.89	2.04	0.11	NA	NA	NA	NA	-0.01
37763	2.41	3.32	0.17	NA	NA	NA	NA	0.01
37764	1.93	2.35	0.11	NA	NA	NA	NA	0.01
37765	2.05	3.98	0.16	NA	NA	NA	NA	0.01
37766	NA	NA	NA	NA	NA	NA	NA	NA
37767	2.02	5.37	0.11	NA	NA	NA	NA	-0.01
37768	0.96	3.33	0.11	NA	NA	NA	NA	-0.01
37769	1.93	1.51	0.27	NA	NA	NA	NA	0.5
37770	3.25	1.89	0.15	NA	NA	NA	NA	1.25
37771	1.93	1.67	0.13	NA	NA	NA	NA	-0.01
37772	1.08	2.44	0.17	NA	NA	NA	NA	-0.01
37773	1.45	2.01	0.15	NA	NA	NA	NA	0.01
37774	1.84	3.8	0.07	NA	NA	NA	NA	0.01
37775	4.24	2.86	0.16	NA	NA	NA	NA	0.04
37776	3.88	3.72	0.05	NA	NA	NA	NA	-0.01
37777	3.15	1.5	0.1	NA	NA	NA	NA	-0.01
37778	4.01	3.96	0.09	NA	NA	NA	NA	-0.01
37779	2.06	1.39	0.08	NA	NA	NA	NA	-0.01
37781	3.83	0.25	0.07	NA	NA	NA	NA	0.75
37782	2.76	0.08	0.03	NA	NA	NA	NA	0.06
37783	3.34	0.2	0.02	NA	NA	NA	NA	0.81
37784	2.24	0.88	0.19	NA	NA	NA	NA	0.2
37785	1.51	0.22	0.03	NA	NA	NA	NA	0.01
37786	2.4	1.59	0.19	NA	NA	NA	NA	0.5
37787	3.06	1.19	0.15	NA	NA	NA	NA	0.53
37788	2.63	6.3	0.13	NA	NA	NA	NA	0.02
37789	3.82	0.69	0.09	NA	NA	NA	NA	-0.01
37790	3.18	0.66	0.13	NA	NA	NA	NA	0.4
41774	3.01	2.91	NA	NA	NA	NA	NA	NA
41775	1.33	0.87	NA	NA	NA	NA	NA	NA
41776	4.22	1.26	NA	NA	NA	NA	NA	NA

41774

SAMPLE	K2O	NA2O	P2O5	LOI	TOTAL	TOTALC	CO2	S
41777	3.62	1.42	NA	NA	NA	NA	NA	NA
41778	3.62	3.53	NA	NA	NA	NA	NA	NA
41779	2.17	4.65	NA	NA	NA	NA	NA	NA
37793	5.18	0.8	NA	NA	NA	NA	NA	NA
43194	-0.24	0.02	NA	NA	NA	NA	NA	NA
43802	3.49	2.56	NA	NA	NA	NA	NA	NA
43803	1.81	3.33	NA	NA	NA	NA	NA	NA
43804	7.35	0.49	NA	NA	NA	NA	NA	NA
43805	3.13	3.28	NA	NA	NA	NA	NA	NA
43806	2.17	3.84	NA	NA	NA	NA	NA	NA
43807	2.77	1.97	NA	NA	NA	NA	NA	NA
43808	-0.24	5.01	NA	NA	NA	NA	NA	NA
43809	6.15	0.92	NA	NA	NA	NA	NA	NA
43810	2.53	3.73	NA	NA	NA	NA	NA	NA
43811	2.77	2.08	NA	NA	NA	NA	NA	NA
43812	3.98	0.36	NA	NA	NA	NA	NA	NA
43813	3.37	0.69	NA	NA	NA	NA	NA	NA
43814	2.65	0.22	NA	NA	NA	NA	NA	NA
43815	3.01	0.86	NA	NA	NA	NA	NA	NA
43816	2.41	2.57	NA	NA	NA	NA	NA	NA
43817	2.17	3.36	NA	NA	NA	NA	NA	NA
43818	1.33	4.83	NA	NA	NA	NA	NA	NA
43819	2.17	2.72	NA	NA	NA	NA	NA	NA
43821	1.57	5.3	NA	NA	NA	NA	NA	NA
43822	2.29	1.59	NA	NA	NA	NA	NA	NA
43823	3.86	0.09	NA	NA	NA	NA	NA	NA
43824	3.62	0.49	NA	NA	NA	NA	NA	NA
43825	2.41	2.09	NA	NA	NA	NA	NA	NA
43826	2.29	0.34	NA	NA	NA	NA	NA	NA
43827	1.57	3.48	NA	NA	NA	NA	NA	NA
43828	3.49	2.43	NA	NA	NA	NA	NA	NA
43829	3.37	0.43	NA	NA	NA	NA	NA	NA
43830	1.45	3.77	NA	NA	NA	NA	NA	NA
43831	0.96	5.23	NA	NA	NA	NA	NA	NA
43832	2.53	4.84	NA	NA	NA	NA	NA	NA
43833	1.45	0.58	NA	NA	NA	NA	NA	NA
43834	5.78	0.09	NA	NA	NA	NA	NA	NA
43835	4.94	0.34	NA	NA	NA	NA	NA	NA
43836	1.21	6.16	NA	NA	NA	NA	NA	NA
43837	2.89	2.44	NA	NA	NA	NA	NA	NA
43838	2.77	1.63	NA	NA	NA	NA	NA	NA

All White Spur Rock Chip Samples

2317rock.xls

SAMPLE	K2O	NA2O	P2O5	LOI	TOTAL	TOTALC	CO2	S
43839	2.89	1.89	NA	NA	NA	NA	NA	NA
43841	2.65	3.79	NA	NA	NA	NA	NA	NA
131346	4.14	1.06	0.1	4.44	100.18	NA	NA	NA
131348	2.64	4.78	0.09	2.32	100.27	NA	NA	NA
131357	1.91	4.59	0.09	3.91	100.86	NA	NA	NA
131358	1.86	3.77	0.04	3.13	99.58	NA	NA	NA
131364	2.37	0.5	0.05	5.49	100.43	NA	NA	NA
131365	1.28	0.4	0.03	2.99	100.35	NA	NA	NA
131376	1.28	0.51	0.08	3.74	100.39	NA	NA	NA
131377	3.07	0.88	0.14	7.67	98.63	NA	NA	NA
131379	1.79	0.61	0.02	4.25	100.48	NA	NA	NA
131381	2.03	0.65	0.25	5.71	100.32	NA	NA	NA
131383	2.8	4.38	0.02	1.32	99.76	NA	NA	NA
131386	2.18	1.8	0.03	2.19	99.55	NA	NA	NA
131387	7.05	0.82	0.04	3.2	99.74	NA	NA	NA
131388	5.18	0.67	0.16	5.61	99.18	NA	NA	NA
131396	1.16	1.99	0.02	4.54	100.61	NA	NA	NA
131396	1.13	1.79	0.02	4.67	99.55	NA	NA	NA
131368	2.98	5.94	0.15	1.67	100.04	NA	NA	NA
131369	3.62	1.28	0.11	3.8	99.27	NA	NA	NA
131374	1.93	5.79	0.11	1.5	99.25	NA	NA	NA
131375	3.48	4.28	0.05	1.78	99.7	NA	NA	NA
HRC96-1	3.7	0.81	0.1	7.65	99.17	0.91	3.33	0.33
HRC96-2	2.9	1.8	0.15	7.95	99.85	1.17	4.29	0.38
HRC96-3	3.13	1.68	0.05	3.11	100.14	0.1	0.37	0.01
HRC96-4	3.9	1.33	0.1	4.64	99.91	0.1	0.37	0.17
HRC96-5	1.16	5.39	0.07	2.34	99.88	0.06	0.22	0.01
HRC96-6	2.94	3.33	0.06	1.5	99.79	0.02	0.07	0.07
HRC96-7	1.35	5.09	0.06	1.35	100.01	0.02	0.07	0.09
HRC96-8	1.49	5.54	0.09	1.68	99.89	0.03	0.11	0.03
HRC96-9	7.21	0.92	0.1	4.01	99.49	0.02	0.07	0.01
HRC96-10	3.44	0.83	0.1	9.86	100	1.46	5.35	0.5
HRC96-11	3.63	1.47	0.11	4.42	99.93	0.11	0.4	0.01
HRC96-12	2.25	4.73	0.14	2.06	99.3	0.1	0.37	0.05
HRC96-13	3.16	3.26	0.16	2.36	99.75	0.02	0.07	0.16
HRC96-15	3.22	0.81	0.14	4.45	99.64	0.36	1.32	0.67
HRC96-16	3.33	0.47	0.17	3.06	99.46	0.04	0.15	0.66
HRC96-17	1.88	5.28	0.14	1.81	99.65	0.03	0.11	0.04
HRC96-18	2.3	6.8	0.13	1	99.72	0.03	0.11	0.06
HRC96-19	0.59	7.64	0.13	1.43	99.74	0.03	0.11	0.04
HRC96-20	2.55	3.52	0.05	2.18	99.75	0.06	0.22	0.01

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All White Spur Rock Chip Samples

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SAMPLE	K2O	NA2O	P2O5	LOI	TOTAL	TOTALC	CO2	S
HRC96-21	4.53	2.36	0.04	1.45	99.8	0.08	0.29	0.01
HRC96-22	3.51	3.93	0.04	1.25	100.12	0.02	0.07	0.01
HRC96-23	6.22	0.24	0.08	3.45	99.77	0.02	0.07	0.01
HRC96-24	2.95	0.95	0.16	10.34	99.96	1.99	7.29	0.33
HRC96-25	1.22	5.64	0.01	0.81	100.76	0.1	0.37	0.09
HRC96-26	3.67	0.65	0.02	3.71	100.47	0.05	0.18	0.01
HRC96-27	2.64	3.44	0.03	1.95	99.76	0.01	0.04	0.01
HRC96-28	5.41	1.77	0.32	5.66	99.41	0.04	0.15	1.24
HRC96-29	6.52	0.41	0.13	4.51	99.97	0.03	0.11	0.01
HRC96-30	3.43	5.56	0.35	4.2	99.74	0.02	0.07	0.01
HRC96-31	4.82	0.8	0.17	5.33	99.71	0.04	0.15	1.54
HRC96-33	3.67	0.75	0.08	4.19	99.79	0.18	0.66	0.55
HRC96-34	3.48	0.51	0.12	4.52	99.62	0.03	0.11	0.01
HRC96-35	1.93	2.65	0.13	2.68	99.56	0.02	0.07	0.01
HRC96-36	3.25	4.64	0.11	1.42	100.48	0.04	0.15	0.01
HRC96-37	4.56	3.86	0.09	0.78	100.71	0.02	0.07	0.01
HRC96-38	2.62	5.07	0.13	1.43	100.05	0.02	0.07	0.04
HRC96-40	3.29	3.74	0.07	1.7	99.87	0.02	0.07	0.04
HRC96-39	1.71	4.98	0.12	1.34	100.09	0.02	0.07	0.05
HRC96-41	2.95	3.12	0.15	2.12	99.75	0.08	0.29	0.1
HRC96-42	3.8	1.41	0.08	2.28	99.64	0.04	0.15	0.06
HRC96-43	3.3	1.47	0.05	2.17	99.83	0.13	0.48	0.01
HRC96-44	2.76	2.16	0.08	2.17	99.57	0.1	0.37	0.01
HRC96-45	4.21	0.04	0.04	3.53	99.28	0.03	0.11	2.08
WS97-1	2.27	4.89	0.04	0.83	99.32	NA	0.19	0.01
WS97-2	3.61	3.17	0.03	1.22	99.91	NA	0.42	0.01
WS97-3	5.26	3.37	0.03	1.47	99.67	NA	0.18	0.14
WS97-4	2.78	4.1	0.11	1.6	99.83	NA	0.15	0.01
WS97-5	2.67	4.8	0.12	1.6	100.06	NA	0.34	0.02
WS97-6	2.73	3.35	0.12	1.95	99.55	NA	0.66	0.01
WS97-7	2.83	4.12	0.06	1.36	100.08	NA	0.09	0.01
WS97-8	1.47	4.71	0.05	1.07	99.68	NA	0.07	0.01
WS97-9	3.36	1.8	0.12	3.2	99.57	NA	0.34	0.01
WS97-10	3.26	3.31	0.12	1.81	99.78	NA	0.12	0.06
WS97-11	2.09	5.08	0.03	1.05	99.9	NA	0.05	0.14
WS97-12	1.68	2.39	0.03	1.75	99.74	NA	0.4	0.01
WS97-13	2.12	4.61	0.05	1.51	99.68	NA	0.59	0.01
WS97-14	4.55	0.1	0.03	2.35	99.98	NA	0.2	0.01
WS97-15	2.22	3.23	0.05	1.62	99.66	NA	0.11	0.01
WS97-16	2	4.86	0.05	1.62	100.08	NA	0.12	0.01
WS97-17	2.44	4.16	0.08	2.59	99.5	NA	0.4	0.01

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0

All White Spur Rock Chip Samples

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SAMPLE	K2O	NA2O	P2O5	LOI	TOTAL	TOTALC	CO2	S
WS97-18	4.94	0.03	0.02	2.52	99.76	NA	0.11	0.01
WS97-19	4.95	0.05	0.03	2.73	99.15	NA	0.12	0.01
WS97-20	1.95	4.46	0.09	2.03	100.02	NA	0.16	0.27
WS97-21	4.88	0.69	0.04	2.43	99.54	NA	0.29	0.01
WS97-22	1.77	4.36	0.06	1.17	99.76	NA	0.14	0.01
WS97-23	3.04	2.05	0.05	2.2	99.56	NA	0.17	0.01
WS97-24	4.79	0.26	0.02	2.16	100.12	NA	0.11	0.01
WS97-25	2.75	3.04	0.03	2.3	99.6	NA	0.77	0.01
WS97-26	3.51	2.82	0.04	1.74	99.44	NA	0.4	0.01
WS97-27A	2.95	3.08	0.05	2.23	99.89	NA	0.17	0.01
WS97-27B	4.74	0.05	0.06	2.61	99.71	NA	0.4	0.01
WS97-28	4.69	0.04	0.05	2.75	99.7	NA	0.59	0.33
WS97-29	1.81	0.9	0.15	6.69	99.65	NA	4.54	0.03
WS97-30	3.05	2.54	0.07	2.96	99.51	NA	1.21	0.01
WS97-31	1.84	4.93	0.11	1.19	99.45	NA	0.36	0.01
WS97-32	2.33	4.38	0.12	1.07	99.69	NA	0.12	0.03
WS97-33	3.1	1.85	0.1	3.21	99.72	NA	1.36	0.09
WS97-34	5.36	0.63	0.01	1.64	99.6	NA	0.05	1.2
WS97-35	3.28	3.08	0.02	1.47	99.81	NA	0.55	0.02
WS97-36	4.51	4.01	0.02	0.85	99.94	NA	0.11	0.01
WS97-37	3.71	3.66	0.01	0.55	100	NA	0.06	0.01
WS97-38	5.76	1.74	0.04	1.08	99.96	NA	0.73	0.24
WS97-39	3.9	3.51	0.03	0.5	99.79	NA	0.05	0.01
WS97-40	3.64	3.93	0.01	0.61	99.82	NA	0.13	0.01
WS97-41	2.69	0.17	0.07	3.2	100.11	NA	0.14	0.05
WS97-42	1.17	1.25	0.02	1.65	99.71	NA	0.44	0.01
WS97-43	3.83	0.08	0.03	1.84	99.38	NA	0.1	0.01
WS97-44	2.04	3.39	0.05	1.73	99.88	NA	0.12	0.01
WS97-45	5.48	0.12	0.05	2.65	99.68	NA	0.14	0.01
WS97-46	2.34	3.57	0.03	1.81	100.47	NA	0.14	0.01
P37920	1.66	0.16	0.02	9.09	99.83	NA	NA	NA
P37921	5.55	3.22	0.01	0.79	99.82	NA	NA	NA
P37922	3.87	0.26	0.06	2.07	99.81	NA	NA	NA
P37923	2.56	4.13	0.09	1.87	99.8	NA	NA	NA
P37924	4.56	0.07	0.03	3.95	99.8	NA	NA	NA
P37925	3.65	0.05	0.14	6.14	100	NA	NA	NA
P37926	1.84	3.36	0.06	1.56	99.8	NA	NA	NA
P37927	3.94	1.92	0.04	2.01	99.9	NA	NA	NA
P37928	3.29	2.31	0.07	1.79	99.8	NA	NA	NA
P37929	3.45	1.46	0.03	1.43	99.7	NA	NA	NA
P37930	6.01	0.59	0.01	2.72	99.6	NA	NA	NA

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All White Spur Rock Chip Samples

2317rock.xls

SAMPLE	K2O	NA2O	P2O5	LOI	TOTAL	TOTALC	CO2	S
P37931	4.04	2.13	0.09	2.73	99.7	NA	NA	NA
P37932	3.23	1.45	0.09	2.05	100.3	NA	NA	NA
P37933	2.71	2.48	0.02	3.02	99.7	NA	NA	NA
P37934	6.33	1.13	0.01	0.32	99.8	NA	NA	NA
P37935	0.45	6.17	0.01	0.64	99.8	NA	NA	NA
P37936	2.45	0.97	0.07	8.47	99.8	NA	NA	NA

427082

APPENDIX 12
Isotope Analyses

White Spur Sulphur Isotope Samples

Sample	Easting	Northing	RL	Hole	Depth	Description	Mineral	delta 34S	Reference
T37745a	377618.00	5358272.00	550.00	NA	NA	Anneliese Prospect	Coarse Pyrite	-15.8	RGC
T37745b	377618.00	5358272.00	550.00	NA	NA	Anneliese Prospect	Fine Pyrite	-14.9	RGC
T37747	377618.00	5358272.00	550.00	NA	NA	Anneliese Prospect	Massive Pyrite	-17	RGC
T37749	377618.00	5358272.00	550.00	NA	NA	Anneliese Prospect	Massive Pyrite	-15.8	RGC
T43187	377648.24	5358241.62	328.81	ANNE001	263.1	Anneliese Prospect	Massive Pyrite	-10.3	RGC
T43187R	377648.24	5358241.62	328.81	ANNE001	263.1	Anneliese Prospect	Massive Pyrite	-10.62	RGC
T43842a	377639.04	5361652.46	338.37	WSP4	290.1	Clast in WSF massflow	Pyrite	18	RGC
T43842b	377639.04	5361652.46	338.37	WSP4	290.1	Clast in WSF massflow	Sphalerite	18	RGC
T43843	376677.20	5361643.93	291.57	WSP4	351.6	Disseminated pyrite in CVC	Pyrite	27.77	RGC
T43844	377016.97	5360881.57	258.66	WSP5	325	Galena spots/veinlets in CVC	Galena	21.27	RGC
T43845	377472.05	5359499.62	492.76	WSP6	37.9	Clast in WSF massflow	Pyrite	-4.11	RGC
T43846	377472.13	5359499.61	492.58	WSP6	38	Clast in WSF massflow	Pyrite	10.09	RGC
T43847	377473.42	5359499.42	489.87	WSP6	41	Clast in WSF massflow	Sphalerite	17.1	RGC
T43849	377477.00	5359448.85	482.41	WSP6	49.3	Clast in WSF massflow	Sphalerite	15.5	RGC
T43850	377639.36	5359398.60	200.03	WSP6	379	Disseminated pyrite in CVC	Pyrite	-6.69	RGC
T43851	376816.09	5361153.45	399.16	WSP7	163.9	Sphalerite-quartz vein in CVC	Sphalerite	25.86	RGC
WS1/1055	377250.00	5362500.00	685.00	NA	NA	Clast in WSF massflow	Pyrite	5.2	Solomon et al (1988)
76741	376110.00	5363940.00	782.00	NA	NA	Clast in WSF massflow	Pyrite	14.1	Dugdale 1992

White Spur Oxygen Isotopes - Sample Catalogue

Sample	Hole	From	To	Easting	Northing	RL	Formation	Rock Type	Alteration	Comments
41783	WSP4	353.20	353.34	376679	5361646	290	Ccv	VDFM	Ser-Alb-Chl-Pyr	Weak S1
41784	ROCK	NA	NA	376900	5361430	573	Ccv	VDFM	Strong Ser-Sil	Float Sample
41785	WSP7	105.52	150.63	376806	5361154	434	Ccv	VDFM	Moderate Ser-Alb	Minor Pyrite
41786	WSP5	298.90	299.03	377006	5360883	283	Ccv	VDFM	Ser-Alb	
41787	WSP5	319.72	319.82	377015	5360882	264	Ccv	VDFM	Ser-Alb	Sphalerite-Pyrite
41788	WSP5	327.00	327.10	377018	5360881	257	Ccv	VDFM	Ser-Sil-Alb	Sphalerite?-Pyrite
41789	ROCK	NA	NA	377312	5360623	555	Ccv	VDFM	Patchy Chl-pink Alb	
41790	ROCK	NA	NA	377615	5360250	535	Ccv	VDFM	Patchy Chl-pink Alb-Ser	
41791	YWS1	427.36	427.50	377524	5360118	237	Ccv	VDFM	Patchy Chl-pink Alb	
41792	ROCK	NA	NA	377655	5359863	504	Ccv	VDFM	Patchy Chl-pink Alb	
41793	WSP6	387.03	387.22	377643	5359397	194	Ccv	VDFM	Chl-pink Alb	
41794	ANNE001	127.80	128.00	377574	5358257	436	Ccv	VDFM	Strong Ser-Pyr	Strong S1

White Spur Oxygen Isotopes - Whole Rock Analyses

Sample	SiO2	TiO2	Al2O3	Fe2O3	MgO	MnO	CaO	K2O	Na2O	P2O5	LOI	TOTAL
41783	63.0	0.555	16.8	4.00	2.58	0.06	3.19	3.11	2.21	0.13	3.83	NA
41784	82.3	0.380	10.9	0.32	0.33	-0.01	0.02	2.55	0.53	0.07	1.80	NA
41785	65.4	0.510	15.0	2.92	2.23	0.04	2.27	4.24	1.32	0.12	5.40	NA
41786	56.8	0.575	18.2	3.06	2.04	0.11	3.16	5.01	1.53	0.14	7.46	NA
41787	75.7	0.385	11.8	2.93	0.60	0.06	0.68	0.36	5.61	0.09	1.47	NA
41788	67.9	0.475	14.4	3.22	0.74	0.13	1.93	1.34	5.58	0.11	4.05	NA
41789	73.0	0.465	13.4	3.16	0.83	0.05	1.12	1.36	4.82	0.11	1.44	NA
41790	72.6	0.485	13.6	3.16	0.86	0.04	1.09	3.11	1.73	0.11	2.38	NA
41791	70.2	0.505	13.9	3.60	1.14	0.07	2.81	2.92	2.53	0.12	1.88	NA
41792	75.7	0.420	12.5	2.81	0.63	0.08	1.29	1.43	4.58	0.11	0.70	NA
41793	71.4	0.550	15.1	2.97	1.16	0.05	1.08	2.70	3.14	0.12	2.23	NA
41794	55.2	0.895	19.4	4.17	1.92	0.03	3.90	4.35	1.73	0.24	7.02	NA
UNITS	%	%	%	%	%	%	%	%	%	%	%	NA
DETECTION	0.01	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA
METHOD	IC4	GRAV7	NA									
LABORATO	Amdel	NA										

41783

White Spur Oxygen Isotopes - Quantitative XRD Results

Sample	Quartz	Albite	Muscovite	Chlorite	Calcite	Dolomite	Ankerite	Pyrite	Total
41783	34	18	26	15	6	0	0	1	100
41784	73	0	22	0	0	0	0	0	95
41785	40	11	36	3	0	7	0	3	100
41786	29	13	43	0	0	0	14	0	99
41787	41	48	3	3	0	0	0	4	99
41788	30	47	11	0	0	0	9	1	98
41789	36	40	11	10	0	3	0	1	101
41790	50	14	26	4	0	0	5	1	100
41791	42	21	23	8	1	0	5	1	101
41792	41	37	12	6	0	0	4	0	100
41793	40	26	22	10	2	0	0	0	100
41794	27	15	37	6	5	4	0	4	98

UNITS

DETECTION

| METHOD | XRD |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| LABORATO | Amdel |

White Spur Oxygen Isotopes - Delta 18O values (Monash University)

Sample	Hole	Delta 18O
41783	WSP4	12.4
41784	ROCK	15.1
41785	WSP7	13.5
41786	WSP5	11.9
41787	WSP5	15.1
41788	WSP5	12.6
41789	ROCK	13.3
41790	ROCK	13.4
41791	YWS1	12.1
41792	ROCK	13.1
41793	WSP6	12.5
41794	ANNE001	11.6

White Spur Oxygen Isotope Geothermometry

SAMPLE	HOLE	DEPTH	O18	QTZ	SER	CHL	FELDS	CARB	QTZ*	SER*	CHL*	FELDS*	CARB*	CALC	TEMP(K)	TEMP(C)
41783	WSP4	353.20	12.4	34	26	15	18	6	0.34	0.26	0.15	0.18	0.06	175584.78	419.03	146.03
41784	ROCK	NA	15.1	73	22	0	0	0	0.77	0.23	0.00	0.00	0.00	172712.47	415.59	142.59
41785	WSP7	105.52	13.5	40	36	3	11	7	0.41	0.37	0.03	0.11	0.07	170093.01	412.42	139.42
41786	WSP5	298.90	11.9	29	43	0	13	14	0.29	0.43	0.00	0.13	0.14	183000.28	427.79	154.79
41787	WSP5	319.72	15.1	41	3	3	48	0	0.43	0.03	0.03	0.51	0.00	167277.10	409.00	136.00
41788	WSP5	327.00	12.6	30	11	0	47	9	0.31	0.11	0.00	0.48	0.09	188113.92	433.72	160.72
41789	ROCK	NA	13.3	36	11	10	40	3	0.36	0.11	0.10	0.40	0.03	175671.74	419.13	146.13
41790	ROCK	NA	13.4	50	26	4	14	5	0.51	0.26	0.04	0.14	0.05	177655.13	421.49	148.49
41791	YWS1	427.36	12.1	42	23	8	21	6	0.42	0.23	0.08	0.21	0.06	188145.91	433.76	160.76
41792	ROCK	NA	13.1	41	12	6	37	4	0.41	0.12	0.06	0.37	0.04	181779.67	426.36	153.36
41793	WSP6	387.03	12.5	40	22	10	26	2	0.40	0.22	0.10	0.26	0.02	181762.65	426.34	153.34
41794	ANNE001	127.80	11.6	27	37	6	15	9	0.29	0.39	0.06	0.16	0.10	183694.96	428.60	155.60

$$QTZ^* = QTZ / (QTZ + SER + CHL + FELDS + CARB)$$

$$SER^* = SER / (QTZ + SER + CHL + FELDS + CARB)$$

$$CHL^* = CHL / (QTZ + SER + CHL + FELDS + CARB)$$

$$FELDS^* = FELDS / (QTZ + SER + CHL + FELDS + CARB)$$

$$CARB^* = CARB / (QTZ + SER + CHL + FELDS + CARB)$$

$$CALC = (3.38QTZ^* + 2.38SER^* + 1.69CHL^* + 2.91FELDS^* + 2.78CARB^*) * 1000000 / (\Delta 18O + 2.9QTZ^* + 3.89SER^* + 2.57CHL^* + 3.41FELDS^* + 2.89CARB^*)$$

$$TEMP(K) = \sqrt{CALC}$$

$$TEMP(C) = TEMP(K) - 276$$

APPENDIX 13

**Review of RGC's Base Metal Exploration
White Spur, Western Tasmania**

Rodney L. Allen

**REVIEW OF RGC'S BASE METAL EXPLORATION
PROJECT AT WHITE SPUR, WESTERN TASMANIA**

Rodney L. Allen

**Volcanic Resources Limited
Morteveien 57, 4085 Hundvag, Stavanger, Norway**

June 9, 1997

Report to Renison Goldfields Corporation, Zeehan, Tasmania, Australia

REVIEW OF RGC's BASE AND PRECIOUS METALS EXPLORATION PROJECTS AT WHITE SPUR AND HENTY, WESTERN TASMANIA

Introduction

This brief report summarizes the main geological observations and recommendations made during a five day visit in April 1997 to RGC's White Spur and Henty projects in Tasmania. Four days were spent on the White Spur project, logging drill core, visiting outcrops and discussing results with Kim Denwer and Michael Vicary. One day was spent reviewing the geological interpretation of the Henty mine area with Tim Callaghan.

White Spur area: Main results

- (1) The White Spur project is a good, geologically driven project with high potential from moderate exploration costs.
- (2) Geological graphic logs were made for three drill holes (see appendix). These comprise moderately detailed logs of the Pasmaenco drill hole YWS-1 and RGC drill hole WSP-4, and a quick summary log for RGC drill hole Annelise-1. These logs, together with outcrop mapping of the HEC canal, provide detailed stratigraphic sections for the southern part of the White Spur area. Important correlations are summarized in Figure 1 and below, however, many details and interpretations on the logs are not repeated here.
- (3) The White Spur area contains a very thick, massive, rhyolitic pumice breccia unit (Central Volcanic Complex = CVC), overlain by a more stratified succession of thick volcanoclastic beds with intervening mudstones and sandstones (White Spur Formation = WSF). The CVC pumice breccia is interpreted as a major, proximal, pyroclastic deposit that filled a large marine caldera. The WSF contains medial, outflow pyroclastic units, probably from different vents to the CVC (?Tyndall Group volcanoes). Each WSF unit can be characterised by its crystal content, the ratio of feldspar to quartz crystals, the size of the quartz crystals and the types of lithic clasts. At present, the five lowest clastic units (or packages) in the WSF stratigraphy have been well characterised (see graphic drill logs and Figure 1) and have been mapped extensively (but incompletely so far) around the licence area by Michael Vicary. The distribution of these lowest units of the WSF is a good guide to interpreting how far below the surface the prospective WSF-CVC contact lies in various parts of the exploration licence.
- (4) The detailed stratigraphy of the contact zone between the CVC and WSF in drill holes YWS-1 and WSP-4 is so remarkably identical to the contact between the footwall and hangingwall successions at the Rosebery and Hercules ore deposits to the north, that it can be concluded that the CVC-WSF contact is **definitely** the Rosebery-Hercules ore horizon. This confirms the earlier interpretation made by R. Allen (1990, 1991 reports to Pasmaenco Ltd; 1994 paper at the Contentious Issues in Tasmanian Geology Symposium) and provides more evidence against

other interpretations of the area. The benefit of this to RGC is that it can be assured that RGC is exploring the same very prospective stratigraphic horizon that contains the nearby Rosebery and Hercules deposits, which are two of the highest grade polymetallic massive sulphide deposits in the world.

- (5) The White Spur area has a deformation style of open to tight, upright folds, cut by a series of strike-parallel thrust faults and other cross faults. The discovery by R. Allen and M. Vicary of outliers of CVC and lower units of the WSF, west of the main CVC-WSF contact, indicate that this deformation style brings the prospective CVC-WSF contact to drillable depths in several parts of RGC's White Spur Licence.
- (6) In the White Spur area, the top of the very thick rhyolitic pumice breccia of the Central Volcanic Complex (CVC) is commonly an abrupt, non-graded contact. This contact is interpreted as a sharp erosion surface, produced by shallow marine to subaerial erosion of the top of the CVC soon after its deposition and while it was still unconsolidated. Locally, additional erosion was caused later by subaqueous volcanoclastic mass flows of the WSF. Up to at least several tens of metres and possibly hundreds of metres of the original CVC pumice breccia was eroded away in some places. Consequently, the contact between the CVC and WSF (the Rosebery-Hercules ore horizon) is interpreted as a syn-volcanic disconformity.
- (7) During erosion of the top of the CVC, the area subsided to a deep water subaqueous environment, and deposition of the WSF commenced. The WSF overlapped the irregular, eroded surface of the CVC pumice breccia, with the result that different stratigraphic levels of the WSF lie on the CVC surface in different places. Subsidence was most likely related to syndepositional faulting.
- (8) Alteration and mineralization straddle the sharp top to the CVC pumice breccia, which suggests that mineralization occurred after erosion of the CVC pumice breccia and after (or during) the subsequent subsidence to a deeper water environment.
- (9) Both the Rosebery and Hercules ore deposits occur where the lowest units of the Rosebery-Hercules Hangingwall sequence (= WSF) are relatively thick. This means the ore deposits occur in sub-basins, which ponded the lower units of the WSF. These sub-basins were defined by active faults probably related to collapse and subsequent differential block movements within the CVC caldera. The first strata that accumulated in the sub-basins were stratified, feldspar crystal-rich, pumiceous sandstones, derived from erosion of the unconsolidated CVC pumice breccia, and dark mudstones (unit 1 on Figure 1). The sub-basins could be a good geological exploration guide for Rosebery-Hercules type ore deposits. Similar areas where the lowest units of the WSF are relatively thick can be defined in the White Spur area by making a stratigraphic correlation diagram from the graphic drill logs and surface outcrop mapping as shown in Figure 1. A sub-basin similar to those at Rosebery and Hercules is defined in the area of the Halls Rivulet Canal and drill hole YWS-1 (see Figure 1). This sub-basin ponded WSF stratigraphic units 1 and 2, and was the locus for intrusion of a large rhyolite sill. The distribution and thickness of WSF unit 3 appears to be

unaffected by this sub-basin, which indicates that the sub-basin stopped subsiding and was filled up, prior to deposition of unit 3. More drill information in the future will refine this geological target.

- (10) In addition to a promising stratigraphic and structural configuration, the CVC-WSF contact in the Halls Rivulet Canal and YWS-1 area also has a sericite-carbonate-leucoxene alteration style similar to the Rosebery and Hercules deposits, but so far no strong sulphide mineralization has been located. The next step in this area is to find an area of higher alteration intensity within the sub-basin (along strike or down dip).
- (11) The top 20-50 metres of the CVC has anomalously strong hydrothermal sericite-quartz alteration and bleaching over a strike length of almost 6 km, from the North Henty Fault up to the northern boundary of RGC's Licence area. This alteration is attributed to the large hydrothermal system that formed massive sulphide ores in the region.
- (12) Locally, such as at 5362500 mN, the alteration zone at the top of the CVC extends up into the base of the WSF, and areas of strong silicification and galena-sphalerite mineralization occur in the base of the WSF. This indicates that both the top of the CVC and the base of the WSF are prospective.
- (13) In the area from drill hole Annelise-1 to drill holes WSP-4 and MR-1, massive sulphide clasts occur in the lower part of a normal graded, lithic-rich, feldspar-quartz-phyric pumice breccia bed. This bed is part of the second mass flow package in the White Spur Formation in the Halls Rivulet Canal (unit 3 in Figure 1). The bed is characterised by a matrix with 2-5% quartz crystals amongst a total crystal population of 20-30%, 1-2 mm feldspar + quartz crystals (in the lower half of the unit), and a ratio of feldspar : quartz crystals of 85 : 15. Lithic clasts are mainly poorly porphyritic, siliceous rhyolite lava clasts (some rounded), but include lesser moderately feldspar-quartz porphyritic rhyolite clasts, limestone clasts, and minor strongly feldspar porphyritic andesite clasts (see graphic log). This sulphide clast-bearing unit lies 20 m stratigraphically above and west of the collars of both drill holes YWS-1 and Annelise-1. Drill holes YWS-1 and Annelise-1 were collared at exactly the same stratigraphic level (by chance!).
- (14) Further north, on White Spur proper and at West Hercules, massive sulphide clasts appear to occur in a different unit (?higher quartz : feldspar ratio, more crystal-rich, with some large quartz crystals up to 7 mm). This unit is a quartz-feldspar crystal-rich and lithic-rich mass flow bed that lies on the eroded surface of the CVC, or just above it (Figure 1). This bed cannot at present be correlated exactly with beds in the Canal-WSP-4 area. It is similar, but not the same (different main lithic clast type) as the quartz-feldspar crystal-rich "marker unit" (unit 4 in Figure 1).
- (15) At present it is not possible to determine the transport direction of the mass flow units with sulphide clasts, and hence the possible source area of the sulphide clasts, because there is insufficient information about lateral changes in

thickness, and crystal and lithic contents of the mass flow units. This may be possible in the future.

- (16) The Annelise prospect massive pyrite may occur at a cryptic flow unit boundary in the CVC pumice breccia succession. However, in drill hole Annelise-1 the pumice flow units above and below the pyrite mineralization appear to be the same.
- (17) The CVC pumice breccia that hosts the pyrite mineralization in Annelise-1 looks different to other intersections of the CVC pumice breccias because it has (a) large orange/pink clasts that are feldspar-altered large pumice blocks, and (b) no dark sericite- or chlorite-rich fiamme. This rock type is interpreted as the usual CVC pumice breccia, but with uncompacted large pumice clasts. In most other areas of the CVC these large pumices are phyllosilicate-altered and compacted to fiamme lenses. Trace element ratios could be used to compare this rock with the CVC pumice breccias further north and check that it is the same unit.
- (18) Two thick "micaceous greywacke" turbidite sandstone packages are intersected by the Halls Rivulet Canal. Each greywacke package overlies a quartz-feldspar crystal-rich mass flow unit. Correlation of these units is uncertain at present, but could be important to resolve in the future. Either (a) the two greywacke units are structural repetitions of the same unit, and the quartz-feldspar crystal-rich mass flow unit below is the same in each case (= the "marker" unit). In this case the prospective WSF-CVC contact lies not far below the western (second) greywacke package and could be drilled. Or (b) the two greywackes are different units, in which case the western greywacke is quite high in the WSF stratigraphy and the WSF-CVC contact would be very deep in this area.

White Spur area: Recommendations

Mapping and core logging

- (1) The mapping programme of M. Vicary's should be continued with emphasis on (a) mapping outliers of the CVC west of the main WSF-CVC contact, and (b) mapping marker horizons in the WSF.
- (2) Continue with the graphic core logging style that was used on YWS-1 and WSP-4, because this will make stratigraphic correlation easier.

Geochemistry

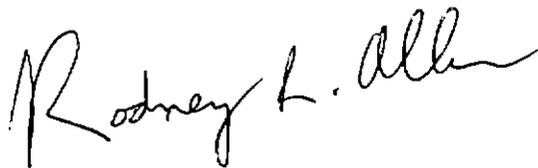
- (1) Assess the results from the extra short traverses done in April across the WSF-CVC contact by the AMIRA VMS Alteration project. This data plus some fill in samples along the contact may enable RGC to determine geochemical vectors toward the more altered and mineralized segments of the contact (which could in turn lie up-dip from a buried massive sulphide deposit).

Geophysics.

- (1) IP/EM surveys may be worthwhile to outline the mineralized alteration zone in the base of the WSF at 5362500 mN.
- (2) CSAMT survey as planned.

Drilling

- (1) The sub-basin defined in the Canal-YWS-1 area should be given a high priority, due to its similarity in stratigraphy, structure and alteration to the setting of the Rosebery and Hercules ore deposits. The planned "stratigraphic" drill holes between WSP-4 and YWS-1, and between Annelise-1 and YWS-1 should go ahead. The information from these holes is required before any deeper down-dip targets can be defined within the "sub-basin".
- (2) After the two extra "stratigraphic" drill holes above are completed, and the geochemical results described above are in, then plan an extra drill hole between WSP-4 and Annelise-1 using all the drill hole, mapping and geochemical data as alteration vectors; i.e. estimate the centre of strongest alteration along the WSF-CVC contact and drill .
- (3) The anticline axis west of the main WSF-CVC contact in the Canal-YWS-1 area potentially overlies the prospective WSF-CVC contact at a drillable depth.
- (4) After assessing the results from mapping and IP/EM/CSAMT, drill down-dip of the mineralization exposed at surface in the base of the WSF at 5362500 mN.



Rodney L. Allen
Volcanic Resources Limited

Annelise-1 5358250m N
 Cana 5360100m N
 WSP14 MR1 5361700m N 5362250m N
 South White Spur 5363700m N
 West Hercules 5366350m N
 WHP192 WHP-193

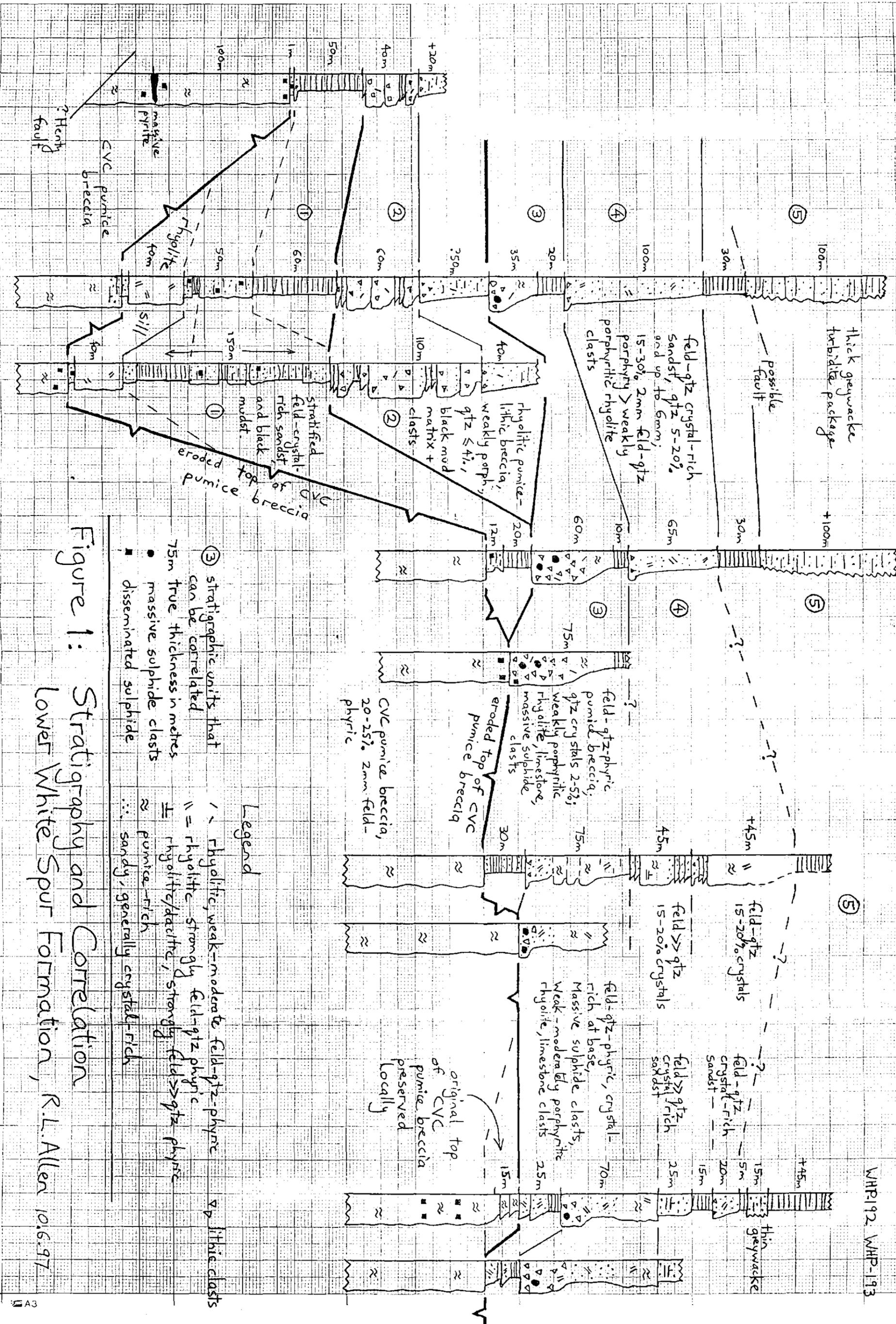


Figure 1: Stratigraphy and Correlation Lower White Spur Formation, R.L. Allen 10.6.97

APPENDIX

GRAPHIC DRILL LOGS FOR YWS-1, WSP-4, ANNELOISE-1

GRAPHIC LOG Volcanic Resources Ltd		Project Mt Read Volcanics, Tasmania. Location White Spur		Drill hole no. Location no.	WSP 4 1 of 8
Co-ords			RL	Scale 1:200	Page 1 of 8
Azim	Incl	Diam	Logged by Rod Allen		Date 19.4.97
m	Structure	Log with grain size mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description	Alteration
0				Start ~ 3.5m	
10	↑ gb			grey, feld > lithic-qtz sandst turbidites >> grey siltst	strong brown weathering
20	↑ gb			Sandstone beds average 1-1.5m thick Bed bases 1-2mm grainsize	
30	↑ gb			continued coarsening - and thickening upward cycle	↑ grey weak ser-carb trace pyrh ↓
40	↑ gb			5 cm	
50	↑ gb				

421230

GRAPHIC LOG Volcanic Resources Ltd		Project Location		Drill hole no. Location no.		Page 2 of 8	
Co-ords		RL		Scale 1:200		Date 19.4.97	
Azim	Incl	Diam	Logged by Rod Allen				
m	Structure	Log with grainsize mud 0.5 2 8 32 max mm		Samples TS results Chemistry	Rock / facies description	Alteration	
50					<p>5 cm</p> <p>average 2 sandst beds per metre</p> <p>slight fining-upward</p>		
60							
70	gb So 67°				<p>To top of drill hole this unit has superb coarsening- and thickening up cycle = prograding sandst turbidite lobe</p>		
80	gb				<p>Medium bedded, grey siltst & grey f-cg sandst turbidites > pale grey lime-siltst (2-5cm) and black mudst.</p>		
90	gb				<p>Sandst feld ± lithic rock with 10-15% small black mud grains. Appears more reworked "grey wacke" type sandst than below 107m, but is still mica-poor and q-crystal-bearing. Probably reworked felsic ± intermediate volcanic provenance</p>		
100							

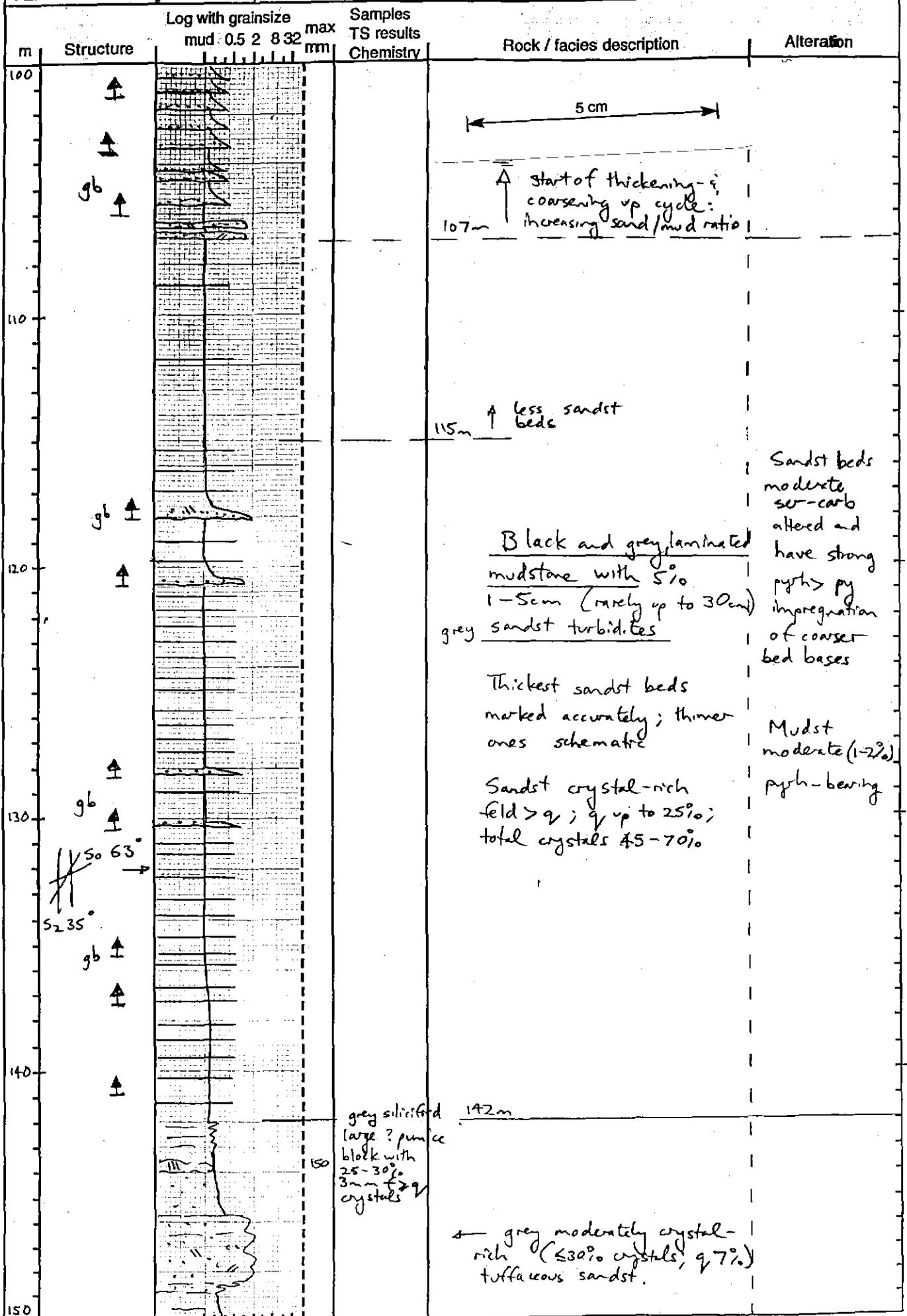
GRAPHIC LOG

Volcanic Resources Ltd

Project Mt Read Volcanics, Tasmania
Location White Spur

Drill hole no. WSP 4
Location no.

Co-ords _____ RL _____ Scale 1:200 Page 3 of 8
Azim _____ Incl _____ Diam _____ Logged by Rod Allen Date 19.4.97

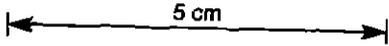
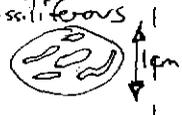


427200

427300

GRAPHIC LOG Volcanic Resources Ltd		Project Mt Road Volcanics, Tasmania Location White Spur		Drill hole no. WSPA Location no.	Page 4 of 8
Co-ords		FL	Scale 1:200		Date 19.4.97
Azim	Incl	Diam	Logged by Rod Allen		
m	Structure	Log with grain size mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description	Alteration
150				<p>sericitic pumice clast</p> <p>pumice framme oriented parallel to S₁ and are chl or ser altered with 30-40% f > q (q 15%) average 2-2.5mm phenocrysts. Qtz commonly as big or bigger than feld.</p>	
160					
170					as below
180				<p>This unit similar to:</p> <ol style="list-style-type: none"> (1) Heres hanging wall q-pyrite crystal-rich mass flow in G10 pit & Heres South holes (2) Base of white spur Fm at west Heres and Sth of Sth Heres (Red 87-9) (3) Rosebery Hw units 2a & 4 <p>Abundance of q-f porphyry pumice lithics most similar to <u>Rosebery Unit 2a.</u></p>	
190					
200			<p>Green ser-chl-altered 40% 3mm f > q porphyry pumice clast Qtz larger than chl up to 7mm</p>	<p>decreasing crystal % increasing pumice matrix and framme</p>	

427302

GRAPHIC LOG Volcanic Resources Ltd		Project Mt Read Volcanics, Tasmania Location White Spur		Drill hole no. WSP 4 Location no.	Page 6 of 8
Co-ords			RL	Scale 1:200	Date 18.4.97
Azim	Incl	Diam	Logged by Rod Allen		
m	Structure	Log with grainsize mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description	Alteration
250				<p>Normal graded, poly lithic-rich, feld > qtz - phyric pumice breccia subaqueous mass flow unit</p> <p>Lower half v. lithic-rich with pumiceous and moderately crystal-rich matrix (20-30% 1-2mm f > q including 2-5% q) Top is pumice shred fg sandst.</p> <p>Lithics clast-supported for lower 27m then matrix- supported above that. Angular to subrounded.</p> <p>Lithic clast types in order of abundance:</p> <ol style="list-style-type: none"> 1-5% 1-1.5mm f > q - porphyritic rhyolite lava. Some perlitic. (70% of lithics) 10-15% f > q - porphyritic rhyolite pale grey limestone and lime-matrix volcanic sandst Several clasts fossiliferous dissem semi-massive & massive sulphide clasts Pyth > sp 15-25% 1.5-2mm feld- porphyritic andesite <p>Unit similar to: Hercules Mh hangingwall (H956), Rosebery hangingwall units 2d & 3a. Less crystal- rich than Hercules West basal White Spur unit with sulphide clasts. ? Similar to White Spur basal unit with sulphide clasts at 64000 N but less crystal-rich base.</p>	<p>pervasive weak-moderate silicification > ser</p> <p>1-2% pyth Sp as matrix impregnation + mineralized clasts + minor massive sulphide clasts.</p>
260				<p>← 1-2% 0.5-1mm q crystals</p> <p>15 100</p> <p>brown-weathered spotty carb altered volc clast</p> <p>Sp >>> gn mineralized rhyolite clast</p> <p>3-5% q 20-30% total crystals</p> <p>80 100 300</p> <p>5 cm</p>  	
270					
280					
290					
300					

GRAPHIC LOG

Volcanic Resources Ltd

Project Mt Read Volcanics, Tasmania
Location White Spur

Drill hole no. WSP 4
Location no.

WSP 4

Co-ords

RL

Scale 1:200

Page 7 of 8

Azim

Incl

Diam

Logged by Rod Allen

Date 18.4.97

427303

m	Structure	Log with grainsize				max mm	Samples TS results Chemistry	Rock / facies description	Alteration
		mud	0.5	2	8				
300							<p>large black mudst rafts</p> <p>5 cm</p> <p>307.4m Irregular, intermixed stratigraphic contact</p>		
300	<p>58° //</p> <p>pygy brittle reactivated</p> <p>309.2</p> <p>brittle - ductile fault with abundant Mn-bearing carb veins.</p> <p>309.9</p>						<p>← Fault</p> <p>← 5cm sericite bed with scattered feld crystals = ? water-settled fallout</p> <p>Thin sandy laminae strongly carb-ser-pyph altered</p> <p>laminated black mudst</p>		
320									
330							<p>332.5m</p>		
340	<p>gb ↑</p> <p>1-2m of abundant parallel carb-q syn-tectonic veins overrid by S2</p> <p>gb ↑</p> <p>S2 29°</p> <p>S0S1 54°</p> <p>bedding + contact 50°</p>						<p>dark grey - black mudst with thin (< 7cm) feld crystal sandst beds</p> <p>Feld crystal beds range from compact grain-supported to very dispersed mud-matrix-supported</p> <p>Compact beds normal graded Minor (1%) small q crystal grains</p> <p>5x1cm semimassive py replacement of feld crystal layer</p> <p>Equivalent to Rosebery-Hercules TSV and hanging wall mudst.</p> <p>344.05m</p>	<p>moderate-strong ser-carbonate-py-pyph alteration of sandst beds</p>	
350							<p>thin-medium planar stratified, and interstratified, feld crystal pumice shred sandst and tuffaceous siltst-fg sandst. Equivalent to Rosebery-Hercules TSV</p> <p>348.8m</p> <p>fg grey (thic sharp, conformable (but probably occasional) contact</p>	<p>pale to medium grey pervasive, moderate strong ser-q-carb 2% dissem py-pyph-trace S0m in coarser beds.</p>	

GRAPHIC LOG

Volcanic Resources Ltd

Project Mt Read Volcanics, Tasmania
Location White Spur

Drill hole no. WSP4
Location no.

Co-ords

RL

Scale 1:200

Page 8 of 8

Azim

Incl

Diam

Logged by Rod Allen

Date 18.4.97

427304

m	Structure	Log with grainsize				max mm	Samples TS results Chemistry	Rock / facies description	Alteration
		mud	0.5	2	8				
350							<p>← 5 cm →</p> <p>? appears more feld crystal rich (25-35%) above 355m, partly due to the sericitised feld overgrowths looking like part of the feld phenocrysts</p> <p>Massive to diffuse 2-10cm banded, 20-25% 2mm feldspar-phyric pumice breccia</p> <p>Relatively crystal-rich. 3% fg dissem leucoxene. Well preserved pumice textures:</p>  <p>yellowish-grey moderate sericite; 2% py blebs + dissem.</p> <p>mottled - blotchy to banded 355-8</p> <p>moderate, mottled to banded, dark green-grey, yellow grey and pale grey</p> <p>ser-chl and ser-qtz</p> <p>1-2% fine dissem py-pyrh in feld crystals</p> <p>≤ 1% dissem magnetite < 0.5mm</p>		
360						<p>medium grey, fg 1% 1-2mm feld-phyric & finely micro-litic; leucox-rich dacite/andesite lithic. Granulate cauliflower margins</p>			
370						<p>grey fg leucox-rich ?dacite</p>			
380						<p>grey massive fg 1-2% 1mm feld-porphyrific ?dacitic lithic clasts occur all way to top of unit, suggests fine-grained graded top eroded off.</p> <p>(Equivalent to Rosebery-Hers) footwall pumice breccia</p> <p>Lithics pink/orange feld-altered below 386m</p> <p>Size of pumice clasts difficult to estimate in this hole</p>			
390						<p>brown-orange 15% 1-2mm f-dacite lithic</p>			
400						<p>bright orange, Si 1-1.5mm f > ferruginous porphyritic rhyolite/dacite fg aphyric leucox-rich ?dacite</p> <p>bright orange 10% 1-2mm feld-rhyolite/dacite lithic</p>			
400.3m							End of hole 400.3m		

386m gradational

blotchy/mottled pink feld > green chl = strong ? diagenetic alteration.

Weak late to post tectonic q-chl veining

feld crystals moderate ser altered (cream)

GRAPHIC LOG

Volcanic Resources Ltd

Project Mt Read Volcanics, Tasmania
 Location White Spur, near Nth Henry fault

Drill hole no. Annex 1
 Location no.

Co-ords

RL

Scale 1:1000

Page 1 of 2

Azim

Incl

Diam

Logged by Rod Allen

Date 21-4-97

427303

m	Structure	Log with grainsize				Samples TS results Chemistry	Rock / facies description	Alteration
		mud	0.5	2	8-32			
0							0-70m correlates well with YWS1 0-138m	
20	20cm fault at 2m = late brittle ductile fault						5cm	
50	gb↑						Rhyolite 10% ltn fgy phyrz, pumice and pumiceous lithic subaqueous mass flow breccia package	moderate silicification of matrix, sericitization of larger clasts
70							Abundant black mud clasts and locally mud matrix to the mass flows also	
100							black mudst with fgy (10%) pumice debris towards top	
120	gb↑						rhyolitic pumiceous mass flow bx with similar composition and texture as YWS1 135-140m; perhaps *residual ash legs of clasts (sharp stratigraphic contact) overprinted by shearing	
121.4	contact 35° s.b. - parallel to S ₂ cleav. Contact occurs within s-s and / strongly cleaved zone approx 5m wide						CVC feld-crystal rich pumiceous sandst	v. strong, bleached ser > pink carb- 2-5% py pale greenish grey moderate bleached sericite
150							CVC 30-35% 2mm feld crystal-rich pumice breccia with scattered fgy grey microlite lithics near top. Perhaps appears crystal-rich due to alteration	160m very greenish
140							no detectable contact	mottled pink and green feld-chl-epid-mag with moderate q-epid veining
200							CVC 20% 1-2mm feld-phyrc pumice breccia Rare lithics above 140m. Below 140m 2-5% large orange feld-altered irregular blocky to lenticular 10% 1-5-2mm feld-phyrc rhyolite clasts. May have internal fibrous pumice texture. This	
250							120 as below	
							150 10% 2mm f-phyrc rhyolite	

GRAPHIC LOG

Volcanic Resources Ltd

Project Mt Read Volcanics, Tasmania

Location White Spur - Half Rivulet Canal

Drill hole no. YWS 1

Location no.

Co-ords

RL

Scale 1:200

Page 1 of 9

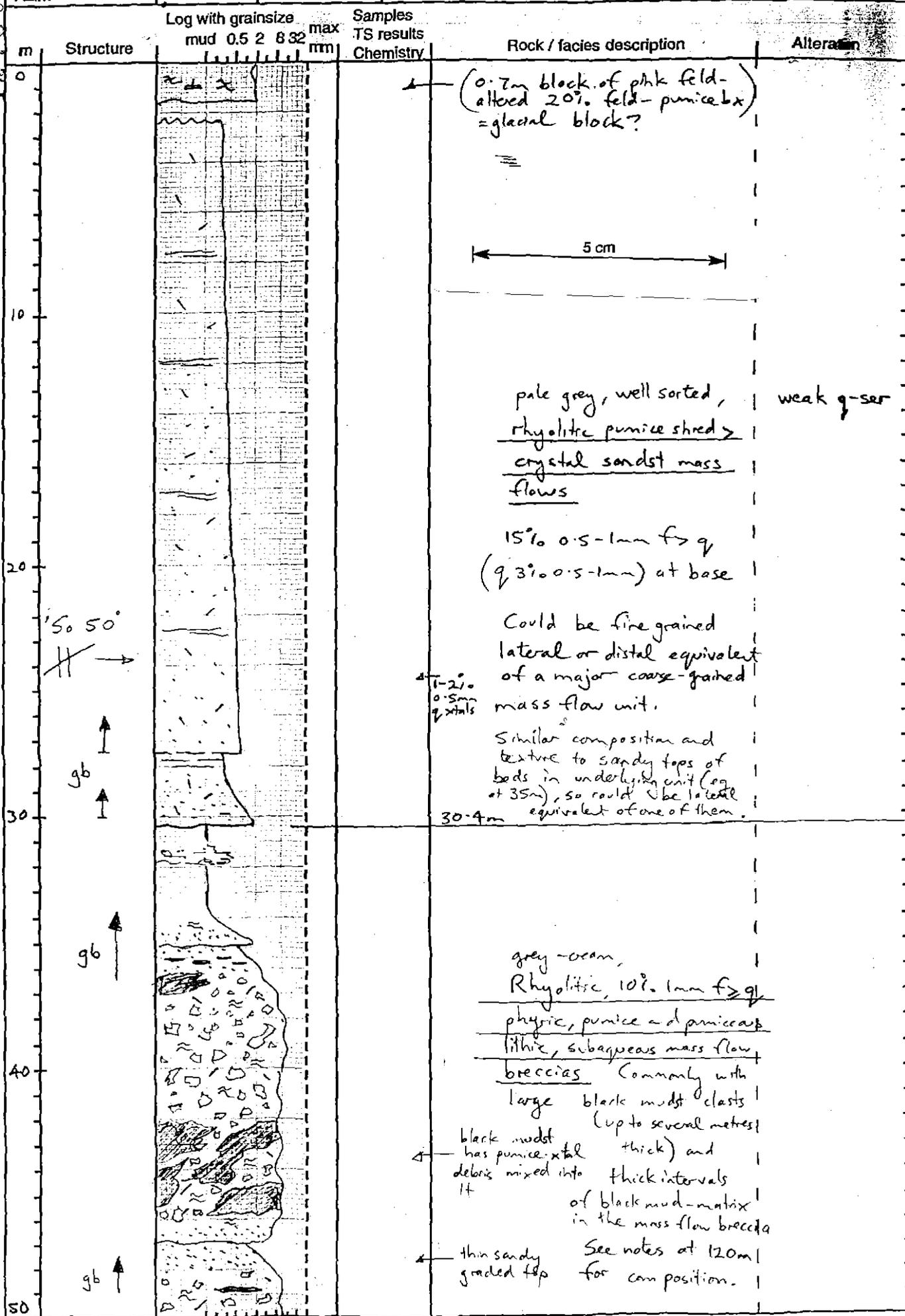
Azim

Incl

Diam

Logged by Rod Allen

Date 20.4.97



GRAPHIC LOG
Volcanic Resources Ltd

Project Mt Read Volcanics, Tasmania
Location White Spur - Halls Rivulet Canal

Drill hole no. YWS1
Location no.

Co-ords

RL

Scale 1:200

Page 2 of 9

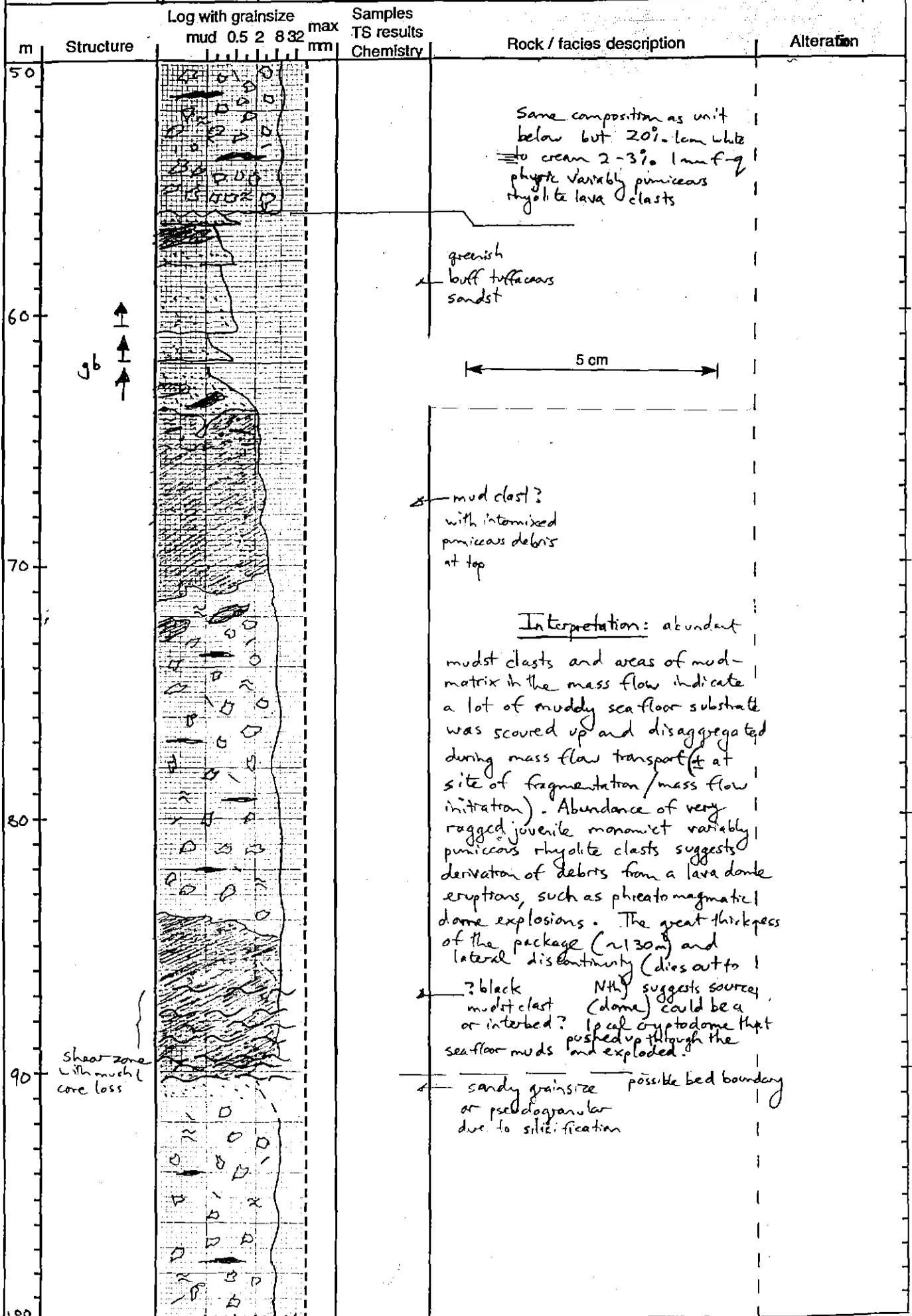
Azimuth

Incl

Diam

Logged by Rod Allen

Date 20-4-97



427303

5 cm

427300

GRAPHIC LOG Volcanic Resources Ltd		Project Mt Read Volcanics, Tasmania Location White Spar - Halls Rivulet Canal		Drill hole no. YW 5-1 Location no.	Page 3 of 9
Co-ords			RL	Scale 1:200	Date 20.4.97
Azim	Incl	Diam	Logged by Rod Allen		
m	Structure	Log with grainsize mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description	Alteration
100				5 cm	
110	S ₁ 57°			black mudst clast?	
120	S ₂ 35° S ₁ 70° gb			pale-medium grey Normal graded rhyolitic pumice-lithic subaqueous mass flow unit. Matrix has 5-15% 1-2mm f>q crystals Qtz up to 4% 0.5-1mm Abundant (5-30%) yellow cream, 2% 1mm f>q physis equant to lenticular to irregular rhyolitic pumiceous to dense lithics with relict ragged glassy margins. 5% dark yellow green flamme with 5-15% 1-1.5mm f>q phenos (q 0.5-1mm). Crystal % varies from one flanne to next. Medium grey matrix probably has a black mud component mixed into it.	weak to moderate q (silicification of matrix and some larger clasts) > ser flamme ser altered
130	gb				Large clasts variably silicified or seritized
140				Whole package down to 167m, characterised by ragged, cream & yellow sericitic, and pale grey very siliceous pumice, moderately pumiceous and poorly vesicular clasts. These are originally glassy rhyolitic clasts with 1-5% (average) 1mm f>q phenos. Smaller amount of clasts have >10% crystals.	Minor py-pyt could be leached out of black mudst blocks.
150	gb			Units are mainly mass flows that vary from mud-matrix-rich slurry flows to mud-poor granular flows. Slurry flows vary from nongraded to massive with a normal	

GRAPHIC LOG
Volcanic Resources Ltd

Project Mt Read Volcanics, Tasmania
Location White Spar - Halls Rivulet Canal

Drill hole no. W511
Location no.

Co-ords _____ RL _____ Scale 1:200 Page 4 of 9
Azim _____ Incl _____ Diam _____ Logged by Rod Allen Date 20.4.97

m	Structure	Log with grainsize				max mm	Samples TS results Chemistry	Rock / facies description	Alteration
		mud	0.5	2	8				
150	gb ↑	[Hand-drawn grain size distribution curves]				70		graded top. } this could be same mass flow bed with large mud intraclasts 5 cm	
	gb ↑	[Hand-drawn grain size distribution curves]						pumice & "lithers" S ₂ 1-1.5mm fvg; q 1-2% 1mm ↑ start of mud-matrix flows	
166		[Hand-drawn grain size distribution curves]						water-settled pumice with S ₂ 20% 1-1.5mm fvg (9.5% 1mm)	
	gb ↑	[Hand-drawn grain size distribution curves]						167m	
170		[Hand-drawn grain size distribution curves]						dark grey silts - vfg sandst	
		[Hand-drawn grain size distribution curves]						and	
180	S ₂ S ₃ S ₀ S ₃ consistent relationship no significant folding	[Hand-drawn grain size distribution curves]						black mudst. with v. abundant brown-weathering carbonate-altered vfg- fg sandst laminae	
		[Hand-drawn grain size distribution curves]						187.5m	
190		[Hand-drawn grain size distribution curves]							
200	gb ↑	[Hand-drawn grain size distribution curves]						15m turbidite	

447910

GRAPHIC LOG

Volcanic Resources Ltd

Project Mt Read Volcanics, Tasmania

Location White Spur - Halls Rivulet Canal

Drill hole no. YWS1

Location no.

Co-ords

RL

Scale 1:200

Page 5 of 9

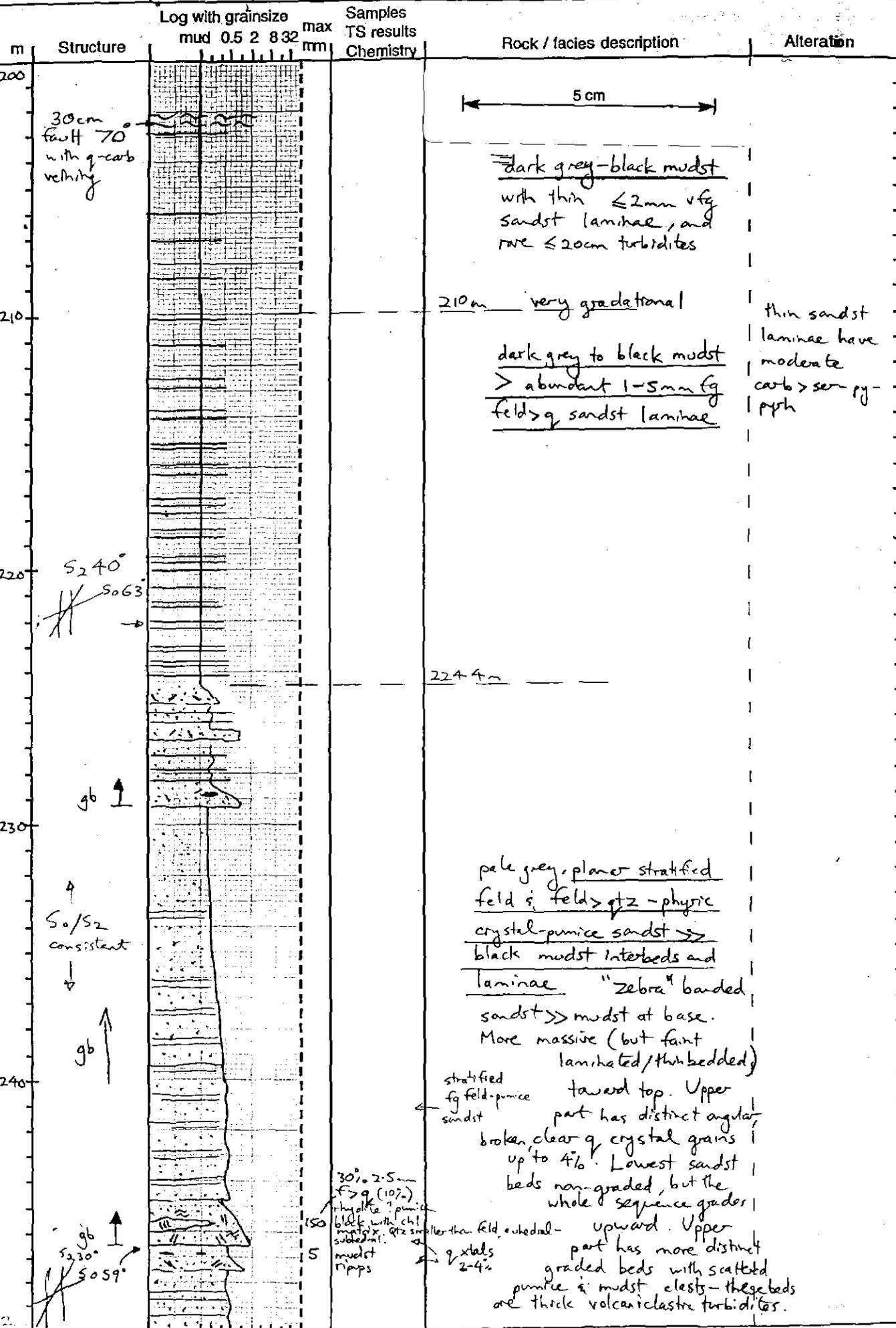
Azim

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Logged by Rod Allen

Date 20.4.97



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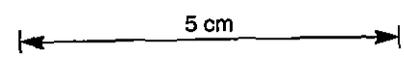
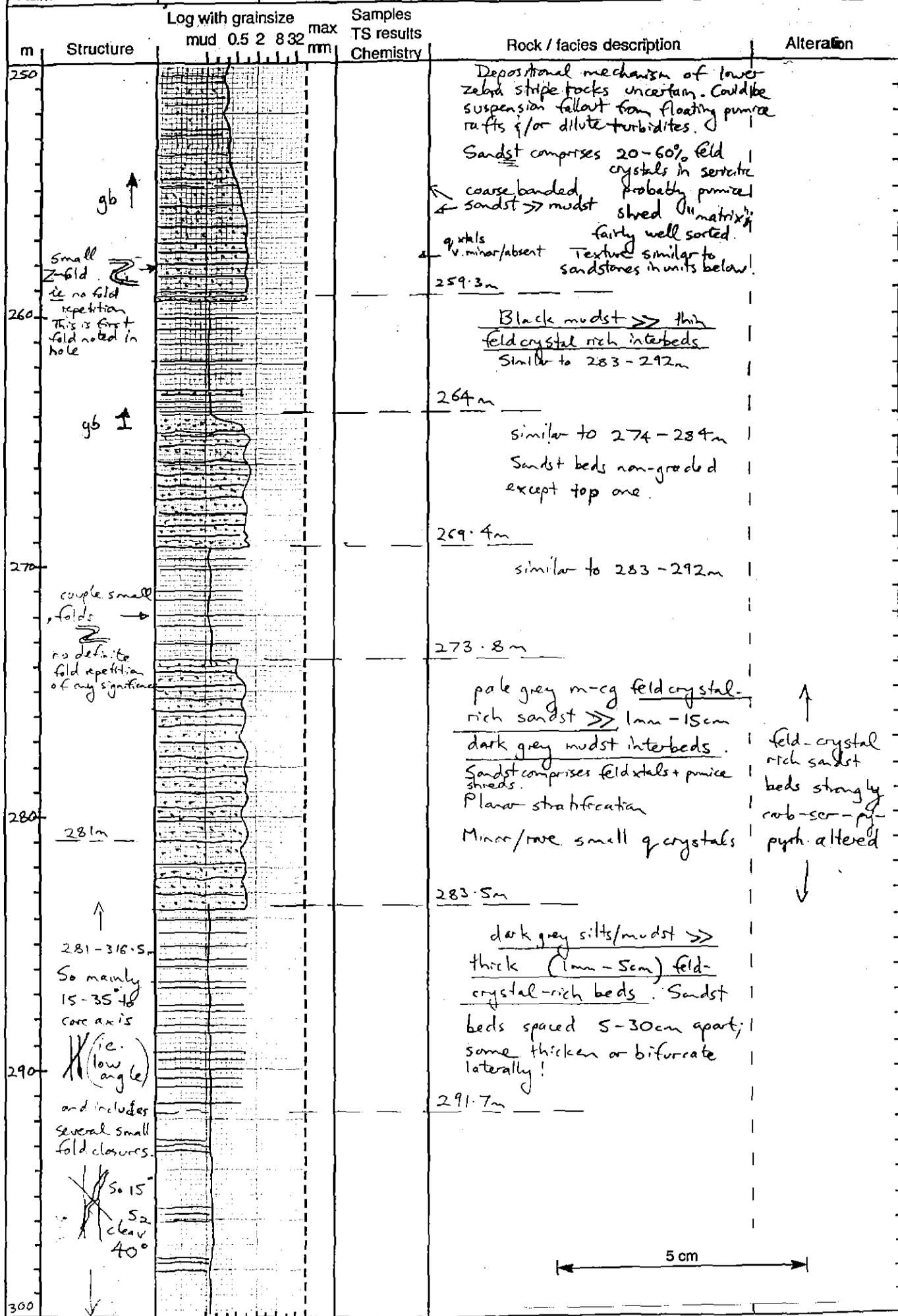
Volcanic Resources Ltd

Project Mt. Read Volcanics, Tasmania
Location White Spur - Halls Rivulet Canal

Drill hole no. **YWS1**
Location no.

Co-ords _____ RL _____ Scale 1:200 Page **6 of 9**
Azim _____ Incl _____ Diam _____ Logged by **Rod Allen** Date **19.4.97**

427312



GRAPHIC LOG

Volcanic Resources Ltd

Project Mt Reed Volcanics, Tasmania
 Location White Spur - Halls Rivulet Canal

Drill hole no. YWS1
 Location no.

Co-ords

RL

Scale 1:200

Page 7 of 9

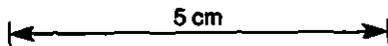
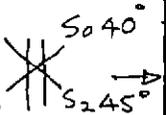
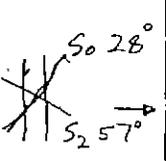
Azim

Incl

Diam

Logged by Rod Allen

Date 19.4.97

m	Structure	Log with grainsize				max mm	Samples TS results Chemistry	Rock / facies description	Alteration
		mud	0.5	2	8				
300	This indicates fold axis region + gentle dips								
310							laminated mudstone → fg sandst.		
320	below 316.5 So becomes higher-angle to core axis (mainly 30-50) but remains at high angle to S ₂ ; indicates fold axis and gentle dips						dark grey mudst-siltst → pale grey sericitic feldspathic fg sandst laminae	weak-moderate ser-carb + dissem pyph in sandst laminae	
330	S ₀ 40°  S ₂ 45°								
340	↑ S ₀ /S ₂ consistent ↓								
350	S ₀ 28°  S ₂ 57°						346- Thinly interbedded to inter-laminated dark grey siltst & f-mg feld crystal bearing sericitic sandst.	weak-moderate ser-carb minor py-ph	

427012

GRAPHIC LOG

Volcanic Resources Ltd

Project Mt Read Volcanics, Tasmania
Location White Spur-Halls Rivulet Canal

Drill hole no. **YWS1**
Location no.

Page **8** of **9**

Co-ords

RL

Scale **1:200**

Date **19. 4. 97**

Azim

Incl

Diam

Logged by **Rod Allen**

Date **19. 4. 97**

m	Structure	Log with grainsize mud 0.5 2 8 32 max mm				Samples TS results Chemistry	Alteration
		5 cm					
350						351.5m laminated dark grey mudst.	v. weak ser
						356.3m 5cm inter-layered feld thin sandst & blk grey silt thin bed with 5-7% 1-1.5mm rounded q crystals	pale to medium grey feld-crystal-rich (50-60%) well sorted sandst
360	S ₀ banding 80° S ₂ 47° S ₀ banding 70° 364.6m small brittle flat fault 4cm thick bx					Nearly massive in middle; diffuse to well 1cm scale interstratified with grey sericitic siltst at base and top. Diffuse margins to feld rich layers. Minor q crystals near top. diffuse planar-banded = alternating crystal-rich and sericite? pumice rich/vitric layers	pervasive medium grey weak ser brown weathering carbonate
370						364.6m Superb intrusive hyaloclastite breccia (peperite) top to porphyry sill. Local intru bx textures. Matrix is f-mg feld + pumice shred diffuse thin bedded, volc sandst; pale grey	trace py
						pale grey tuffaceous matrix + veins	mottled grey and cream-yellow weak ser
						375m Massive, 25-30% 2.5mm feld > qtz >? biot/hb porphyritic rhyolite sill.	minor py
380						Coherent base and middle, peperitic clearly intrusive top. Base & top have relict perlitic (glassy) textures, whereas middle may be spherulitic	homogeneous medium grey weak silicified = dense spherulitic core of sill?
						Qtz crystals 5-10%, subrounded to well rounded and similar size to feldspar	
390						Local inclusions of coarsely microlitic feld-leucocrich igneous rock, up to 2cm	mottled grey and cream weak ser-g
400						Mineralogy, texture and facies characteristics and stratigraphic position remarkably similar to the sill overlying K&B lenses at Rosebery.	

GRAPHIC LOG

Volcanic Resources Ltd

Project Mt Read Volcanics, Tasmania
Location White Spur - Halls Rivulet Canal

Drill hole no.
 Location no.

YWS1

Co-ords

RL

Scale 1:200

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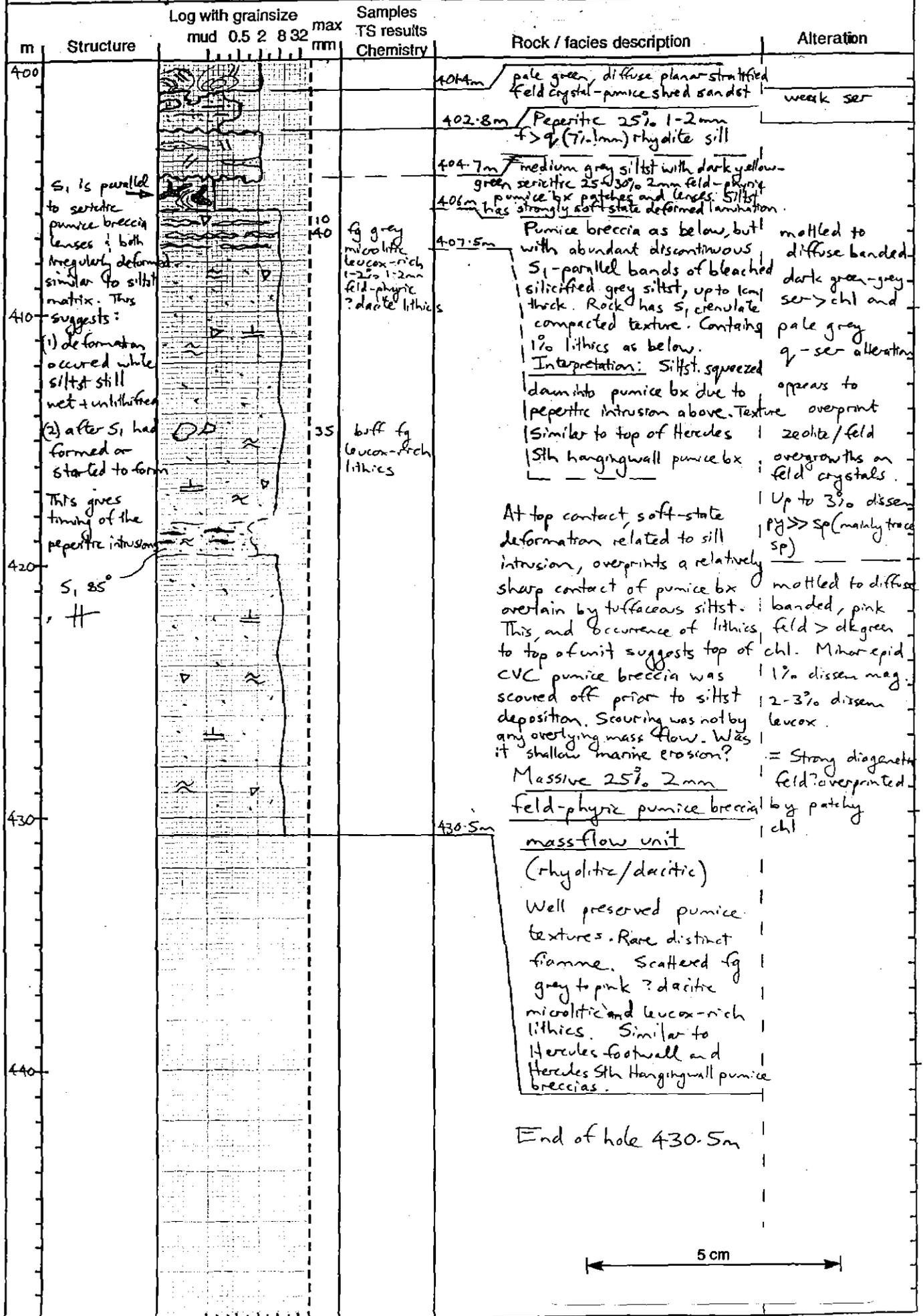
Azim

Incl

Diam

Logged by Rod Allen

Date 19.4.97



End of hole 430.5m

5 cm

427310

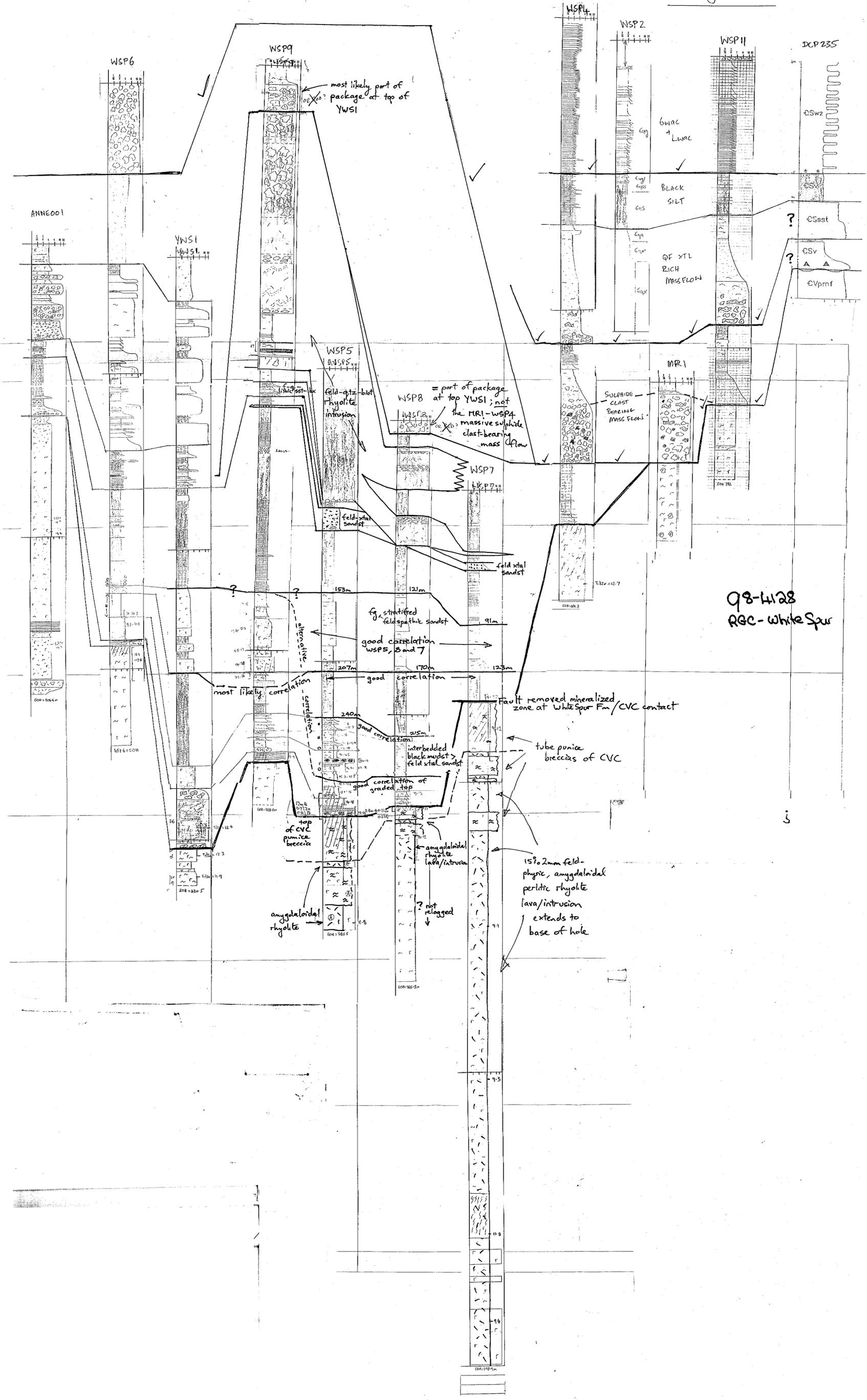
APPENDIX 14

**Review of RGC's Base Metal Exploration
White Spur, Western Tasmania**

Rodney L Allen

QB-41288 (App 14) QB-41288

Figure 1



98-4128
RGC - White Spur

Q8-4128 (B)
Rec - White Spur
(EL 5/96)

427318

**REVIEW OF WHITE SPUR AND SOUTH HENTY EXPLORATION
PROJECTS, WESTERN TASMANIA**

Rodney L. Allen

Volcanic Resources Limited
Morteveien 57, 4085 Hundvåg, Stavanger, Norway

12 March, 1998

Report to RGC Exploration Pty Limited, Zeehan, Tasmania, Australia

Please Note:-

The sections of this report pertaining to the South Henty EL has been omitted.

REVIEW OF WHITE SPUR AND SOUTH HENTY EXPLORATION PROJECTS, WESTERN TASMANIA

Introduction

This report summarizes the main geological observations and recommendations arising from a seven day visit in February 1998 to RGC's White Spur and South Henty projects. Four days were spent on the White Spur project, mainly logging drill core and discussing drill and geochemical results with Michael Vicary. Three days were spent on the South Henty project, including a day studying outcrops and two days reviewing the geological maps and several drill cores with Tim Callaghan. A further five days petrographic work on microscope thin sections, and reporting, were completed in Norway.

Results reported previously (Allen, 1987) are not repeated here, and the earlier report should be consulted for background information.

White Spur area: Main results

- (1) The prospective geological contact zone between the Central Volcanics Complex (CVC) and the overlying White Spur Formation (WSF) has been tested at widely spaced sites along the complete strike length available in the White Spur exploration licence. Considering all the geological, geochemical and geophysical results, the area around WSP-5 is currently the best known target for volcanogenic massive sulphide mineralization within the licence.
- (2) The geology of the White Spur area, correlation of the CVC/WSF contact with the Rosebery-Hercules ore horizon (Allen, 1994, 1997), and the type of alteration and mineralization, all suggest that a Rosebery-type deposit is a realistic target in the White Spur area. The WSP-5 area has similar stratigraphy, alteration and mineralization to the edges of the Rosebery and Hercules ore deposits, 200-500m along strike from ore grade mineralization.
- (3) Geological correlation and primary basin architecture at White Spur are best portrayed using a stratigraphic correlation diagram or "fence diagram". The original diagram constructed in June 1997 has been updated by Michael Vicary. This updated diagram formed the starting point for the current work. Review of drill cores WSP-5, 7, 8, 9 and 11 has led to confirmation of previously proposed correlations, and some new interpretations. These are shown in Figure 1.
- (4) The mineralization in the WSP-5 area comprises disseminated pyrite-sphalerite-galena, and straddles the stratigraphic contact between a thick massive feldspar-porphyrific felsic volcanic unit (correlated with the Rosebery-Hercules Footwall Volcanics of Allen, 1994a, b), and an overlying package of interbedded feldspar crystal-rich sandstone and grey siltstone (correlated with the Rosebery mine "host rock" or Transitional Stratified Volcaniclastics (TSV) of Allen, 1994a, b). The interbedded sandstone and siltstone is a very important stratigraphic unit.

At a regional scale this unit forms discontinuous lenses on top of the massive feldspar-porphyrific volcanic rocks (CVC). These lenses are only present along about 20% of the strike length of the CVC, and represent the early sedimentation in local, brief-lived sub-basins that were active immediately after the climactic eruptions of the Central Volcanic Complex (CVC). At the Rosebery and Hercules mines there is a strong correlation between the location of these sandstone-siltstone units (sub-basins) and the location of mineralization. The sub-basins were formed by subsidence along steep syndepositional normal faults (growth faults). The correlation of mineralization with these sub-basins suggests that the active basin faults were the conduits that channelled hydrothermal solutions to the sites of precipitation at or just below the seafloor.

Drilling by RGC at White Spur shows that the best mineralization intersected so far (WSP-5) occurs near the northern margin of a sub-basin defined by a thick package of the interbedded sandstone and siltstone (Figure 1). Rapid thickening of the interbedded sandstone-siltstone unit from WSP-4 to WSP-8 suggests that one or more active syn-depositional faults occurred just north of the WSP-5 mineralization. Other faults may occur within the sub-basin, to the south of the WSP-5 area, however, there is insufficient information to define them at this stage.

- (5) The character of the top of the CVC in the area of WSP-5 is best shown by drill hole WSP-7, which drilled 450 m into the top of the CVC. This drill core was relogged (Appendix 1) and a petrographic study was carried out on 11 representative rock samples and thin sections (Appendix 2). The top of the CVC consists of a rhyolitic to dacitic, clast-supported breccia of pumice clasts (pumice breccia) that has been intruded by a very thick (>400m) rhyolite sill or intrusive dome. The pumice breccia and intrusion are similar in composition, and contacts between the two rocks are difficult to locate. Both rocks are feldspar-hornblende-pyroxene porphyritic. The intrusion is quite variable in appearance, but is generally characterised by a slightly more massive homogeneous texture, has slightly less and smaller phenocrysts, commonly contains prominent white quartz-filled (after agate) amygdales and vugs, and varies from strongly pumiceous to moderately vesicular and perlitic (Appendix 2). Several samples show that pumiceous parts of the intrusion grade into pumice breccia. Furthermore, the pumice breccia that the intrusion was emplaced into, shows evidence of having formed by *in situ* (autoclastic) brecciation of a pumiceous magma. Correlation shows similar rocks in drill holes WSP-5 and 8 (Figure 1).

This is exciting new evidence that the top of the CVC is not just a monotonous thick pyroclastic pumice unit, but also contains unusual thick pumiceous lava domes and intrusions. I made this suggestion back in 1987 but could not find diagnostic evidence then. WSP-7 is compelling evidence. The top of the CVC is best attributed to the progressive eruption and degassing of a major felsic magma reservoir. Initial eruptions were large, gas-rich (pumiceous) and explosive, resulting in eruption of a thick pyroclastic pumice unit. Immediately following these explosive eruptions, pulses of frothy (pumiceous) partially degassed magma intruded non-explosively into the pyroclastic pumice pile. In WSP-7 there is evidence of two pulses of pumiceous intrusions. The first pulse, represented by the *in situ* brecciated pumice breccia at the very top of the CVC,

was very pumiceous, whereas the second pulse that intruded into it was more degassed and varied from pumiceous to moderately vesicular.

It is possible that the location of these early large pumiceous intrusions in the top of the CVC could have influenced the location of mineralization at the CVC/WSF contact.

- (6) A new geological log was made for WSP-5 (see Appendix 1) and 5 petrographic thin sections of the mineralization and alteration types were studied (Appendix 2) in order to better understand the mineralization.

WSP-5 contains a 100 m thick interval of weak disseminated mineralization, and within this are several intervals of stronger sulphide dissemination (>1000 ppm Zn and/or Pb). The best is a 30 m thick interval of Zn>Pb that occupies the base of the interbedded feldspar crystal-rich sandstone and siltstone, and the top few metres of the underlying pumice breccia. This interval is associated with strong sericite-Mn carbonate alteration. The next best interval of mineralization is a 13 m thick interval with Pb locally > Zn that lies slightly lower in the stratigraphy, entirely within the top of the pumice breccia unit. This interval is a bleached zone of pale grey to white, moderate quartz-albite alteration. This alteration zone is underlain by hydrothermally relatively unaltered rocks with grey and green, to pink and green, strong diagenetic albite-quartz-chlorite-epidote alteration. This is the background diagenetic alteration assemblage of the region. Most rocks have both a spaced, stylolitic, bedding-parallel S1 foliation attributed to diagenetic compaction and the earliest stages of compressional deformation, and a pervasive, grain-shape foliation (S2) attributed to the main regional compressional deformation.

The core logging and petrography indicate that the mineralization is a replacement style mineralization. In the massive pumice breccia the mineralization occurs as clots of (1) py-sp-gn + coarse sericite/muscovite + Fe/Mn carbonate, or (2) py-sp-gn + quartz + coarse sericite/muscovite. In both cases the clots preferentially replace the primary igneous feldspar phenocrysts, and are enclosed by strongly sericite±Mn carbonate-altered rock. Sulphide-quartz alteration preserves the original tube pumice texture of the rock whereas primary textures are obliterated from the enclosing sericitic domains. In the interbedded feldspar crystal-rich sandstone and siltstone, sulphides are concentrated along thin coarser more crystal-rich sandstone beds and along the bedding-parallel S1 foliation planes. The sulphides and alteration minerals are foliated by S2. The rocks are commonly overprinted by post-S2 brittle brecciation and networks of veinlets. The breccias and the veinlets are filled with coarse undeformed Mn/Fe-bearing carbonate and undeformed sulphide.

The observed relationships indicate the following sequence of events: (1) deposition of pumice breccia, (2) local erosion of the top of the pumice breccia in a shallow water environment, (3) deposition of grey siltstone and feldspar crystal-rich sandstone, (4) slumping occurred prior to lithification and either before or shortly after mineralization, and resulted in local fluidal mixing of the rocks, (5) diagenetic alteration to an albite-quartz-chlorite-epidote mineral assemblage, (6) early Fe/Mn carbonate-sericite alteration and py>sp-gn-quartz-

muscovite mineralization; sulphide-quartz preserved some pumice textures; mineralization occurred in both rock types largely by impregnation and replacement, before lithification, and before and/or during S1 compaction; in bedded rocks mineralization preferentially infiltrated along more permeable beds, (7) sericite alteration subsequently enveloped the rock and obliterated all pumice textures except for those preserved in the quartz spots, (8) S1 compaction-dissolution foliation occurred after and/or during mineralization, (9) all rocks were foliated (S2) during the main regional compressional deformation, (10) brittle brecciation, probably related to faulting, formed breccias of rotated clasts and fracture networks, (11) the breccias and fractures were infilled by cream-tan Fe/Mn-bearing carbonate and sp-gn. This undeformed sulphide is a second generation of mineralization, but could be derived by leaching of more soluble sulphides (sp, gn) from the earlier mineralization into open fractures and tectonic breccia.

- (7) Pb isotope analysis has been carried out on a sample of the lower, more galena-rich mineralization zone in WSP-5. The analysis returned unusual values very different to the Cambrian lead values for the Rosebery and Hercules ores. The values are most similar but still different to the lead values of Devonian mineralization at Renison and Zeehan-Dundas. Interpretation of this Pb isotope data in isolation would suggest that the White Spur mineralization is very young, possibly even younger than some of the better known Devonian mineralization, and consequently not a good target for Cambrian massive sulphide ores. However, the petrographic work reported above shows that the first stage of py-sp-gn mineralization at White Spur was emplaced very soon after deposition of the Cambrian host rocks and before the regional deformation, which in turn we know from other studies occurred before the Devonian mineralization at Renison and Zeehan-Dundas. Consequently, this is a warning that the lead isotope results are not always easily interpreted and should be interpreted together with petrographic work. In this case at White Spur, the Pb isotope values are unusual and unexplained, and should not be used to downgrade the potential of the area.
- (8) As WSP-5 has the best alteration and mineralization, and WSP-9, 290 m to the south, and WSP-8, 100 m to the north, are less altered and mineralized, the next target should logically be in the gap between WSP-5 and WSP-9, or down-dip of WSP-5. The current hole WSP-10 will partly test these areas. However, the down-hole EM suggests a conductor plunging north below WSP-5. There is a real problem in distinguishing sulphide conductors from pyrrhotite- and graphite-bearing black shales because both occur close together in the area. However, the geological and geochemical results are consistent with the geophysical suggestion of a sulphide body down-dip and to the north of WSP-5. All data suggest that further drilling should be directed deeper than WSP-5.
- (9) Review of the geochemical data suggests that the best geochemical vector toward mineralization is a **combination** of Zn/Na₂O, Alteration Index (Ishikawa index), K₂O and MnO₂. The best mineralization in WSP-5 corresponds to a sericite-carbonate alteration zone, characterised chemically by high Zn, Pb, K₂O, MgO, MnO₂, and low Na₂O and SiO₂. Zn/Na₂O is the best single vector and identifies the alteration in WSP-5 as the strongest intersected so far. The Ishikawa

Alteration Index $(\text{MgO} + \text{K}_2\text{O})/(\text{MgO} + \text{K}_2\text{O} + \text{Na}_2\text{O} + \text{CaO}) \times 100$ is usually the best geochemical guide to the centre of intense footwall alteration in volcanogenic massive sulphide type systems. However, the presence of carbonate in the alteration assemblage moves the index to less anomalous values. Consequently the index does not recognise the very proximal carbonate-sericite alteration of Rosebery, Hercules (and White Spur) type alteration as being intense alteration. One way of correcting this is to delete carbonate from the Ishikawa index and use a modified alteration index of:
 $(\text{MgO} + \text{K}_2\text{O})/(\text{MgO} + \text{K}_2\text{O} + \text{Na}_2\text{O}) \times 100.$

- (10) In RGC's geochemical database, the primary chemical composition of the altered rocks is best characterised by the immobile element ratios Ti/Zr and P/Zr. These ratios are consistent for individual geological units (strictly only for individual emplacement units), but are commonly different from one rock unit to another. For example, using the whole rock (?XRF) analyses, a chemical stratigraphy can be detected within the rhyolitic rocks in the upper part of the CVC. Both the RGC data and the AMIRA Alteration Project (P439) data show that the deeper CVC pumice breccias have Ti/Zr of 7.0-8.2, and are overlain by an up to 150 m thick, slightly more mafic pumice breccia interval at the very top of the CVC with Ti/Zr of 11.6-13. The southernmost part of the area has a still more mafic pumice breccia with a Ti/Zr ratio of 17.7-19.0 at the top of the CVC (drill hole Anne 1). At the Halls Rivulet Canal, a feldspar-porphyrific rhyolitic intrusion or lava 450m below the top of the CVC pumice breccia has a consistent Ti/Zr ratio of 10.5. The second pulse of intrusive rhyolite in the WSP5 - WSP7 area has a Ti/Zr ratio of 11.8 (whole rock analysis from WSP-5), which is indistinguishable from the pumice breccia at the top of the CVC that it intrudes into.

P/Zr is also useful in confirming this chemical stratigraphy, because both P and Zr values are little affected by alteration in these rocks, and with more mafic primary composition, P contents increase and Zr contents decrease, so the P/Zr ratio increases.

- (11) However, there is a problem with the Ti values in the geochemistry database that does not allow the Ti/Zr ratios to be compared between all the RGC drill holes. Drill holes Anne-1, WSP-4, 5 and 6, have whole rock (presumably XRF) analyses, and Ti is calculated from the whole rock TiO₂ analyses. These analyses appear of good quality and can be directly correlated with the CODES AMIRA Alteration Project data for the Halls Rivulet Canal and the White Spur fill-in traverses north of drill hole MR1. Great care was taken with both sample selection and analysis of the CODES AMIRA project samples and this database is of high quality. In contrast the data reviewed from drill holes WSP-7, 8 and 9 included no whole rock analyses, and Ti and Zr were analysed (by which method?) as an add-on to the base metal and neutron activation analyses. These Ti analyses may be consistent within the WSP-7,8,9 data-set but they do not correlate with the Anne-1, WSP-4, 5, 6 and CODES AMIRA data-set. When Ti/Zr values from the two different sets of analyses are compared for the same rock unit in adjacent drill holes, there is a 10-20% discrepancy in the Ti/Zr ratio. The Ti/Zr ratios from the whole rock (XRF) data are consistently higher.

This problem is fairly easily solved. There are two possible causes. First, how were the Ti values calculated in the non-whole rock analyses? If they were converted from TiO₂ analyses then perhaps the wrong conversion factor was used (the correct factor is %TiO₂ × 5995). If this is not the problem, the discrepancy is in the analytical technique, and the problem can be solved by requesting the laboratory to do whole rock analyses on a small selection of the stored sample powders from WSP-7, 8, 9. Then it can be confirmed whether the two analysis methods give different results for the same sample. If this is confirmed, then in future either Ti/Zr ratios should only be calculated from whole rock analyses, or alternatively analyse a couple of samples in each sample batch by both methods and calculate a conversion factor to change all Ti values to the whole rock Ti values.

- (12) The massive rhyolite unit near the top of WSP-9, 5 and 8 is an intrusive sill or cryptodome. Peperitic contacts indicate the rhyolite intruded while the host siltstones were wet and unlithified. This rhyolite is texturally similar to the main clast type in the overlying and laterally equivalent rhyolite mass flow package (the package directly below the mass flow unit with the massive sulphide clasts). This rhyolitic mass flow package stretches from the top of WSP-8 to Anne-1, is restricted to within the sub-basin, and is the uppermost unit in the sub-basin. It is likely that this mass flow package erupted from a vent on the summit of the rhyolite intrusion.

Mass flow units higher in the stratigraphy are not confined to the sub-basin and their sources are not yet known.

- (13) The RGC drill core logging sheet has been designed to contain as much information as possible and in a succinct format. However, I think the graphic log column should be modified. The graphic log is difficult to draw and equally difficult to read because for fine-grained rocks the log is too narrow (see for example the interval from 240-310 m on my log for WSP-5, Appendix 1). I suggest adding at least 2mm, preferably 4mm, to the left side of the graphic log column, and replace the 1/16 mm division by "mud". Some millimetres could be found by eliminating one or two of the sub-columns in the Alteration section of the log sheet; it is unlikely that 7 different alteration types are going to be logged on any one page of the log sheet, so 4 or 5 sub-columns would do.

White Spur area: Recommendations

Geology

- (1) Construct a new correlation diagram for the CVC-WSF contact zone using all the drill core and outcrop data, including the new data from WSP-10, and the modifications suggested in Figure 1.
- (2) Modify the graphic logging sheet slightly as suggested above.

Geochemistry

- (1) If there is sufficient outcrop, fill in the gap in data between holes Anne-1 and WSP-6, with some short mapping and geochemical sampling traverses. The aim would be to determine how strong the alteration is near the CVC-WSF contact. If no data can be obtained near the contact then it may be necessary to drill a hole through the contact.
- (2) Resolve the discrepancy in Ti analyses by checking the conversion factor used to calculate Ti in ppm. If this is not the problem then request the laboratory to do whole rock analyses on a small selection of the stored sample powders from WSP-7, 8, 9. This will confirm whether the two analysis methods used previously give different results for the same sample. See section 11 above for further recommendations.

Geophysics

- (1) Has the outcropping mineralization at 53 62500 mN been explained and tested? Perhaps a small program of outcrop sampling along the CVC-WSF contact to the north of this position, and an IP survey between the CVC contact and WSP-11, 12 would help. The prospective area here is limited to a narrow, and probably shallow, north-south trending corridor between the main CVC-WSF contact and the outlier of CVC in the WSP-11, 12 area.

Drilling

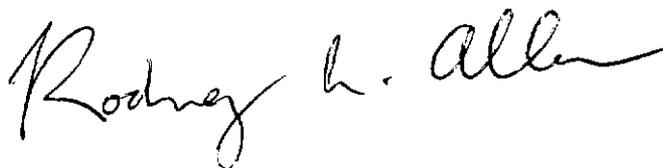
- (1) The mineralization in WSP-5 has not been thoroughly tested down-dip. Assess all the geophysical and geochemical data from holes WSP-5, 7, 8, 9 and 10, and use this to site a deep drill hole 200-300 m under WSP-5.
- (2) If no outcrop data can be collected at the CVC-WSF contact in the gap between Anne-1 and WSP-6 then drill a hole in this gap.

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427323

APPENDIX 1

Graphic drill log for WSP-5, and additions to summary logs for WSP-7, 8
and 9.

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5 (extra log)
 SHEET 1 OF 10

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	EL 5/95
PROSPECT :	White Spur (south)
DATE :	11.2.98
LOGGED BY :	Rod Allen

427320

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.		ROCK	ALTERATION
0				<div style="display: flex; justify-content: space-around; font-size: 8px;"> 1 16 1 4 1 4 4 16 32 </div>				<p style="text-align: center;"><u>7 to 1-1.5mm feld</u> <u>q porphyritic rhyolite</u></p> <p>Finely spherulitic and weakly q-amygdaloidal in upper q. central part. Perlitic and hyaloclastic at base.</p> <p>Local brecciation and green chl-ser pseudomorph textures.</p>		
10										
20										
30										
40										

REMARKS

13

18 pages

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP-5

SHEET 2 OF 10

-  Bedding
-  Cleavage
-  Foliation
-  Fault, Shear
-  Breccia
-  Broken core
-  Disseminated
-  Massive
-  Pervasive
-  Narrow vein
-  * Visible gold

PROJECT :	EL 5/95
PROSPECT :	White Spur (south)
DATE :	11.2.97
LOGGED BY :	Rod Allen

427330

HOLE DEPTH	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG										ALTERATION	GEOLOGY NOTES	SUMMARY		
				1/16	1/4	1	4	16	32	SIL.	SER.	PT.	ROCK			ALTERATION		
40																		
50																		
60																		
70																		
80																		

REMARKS

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	EL 5/95
PROSPECT :	White Spur (south)
DATE :	11.2.98
LOGGED BY :	Rod Allen

427331

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PT.		ROCK	ALTERATION
30										
90								<p>7% 1-1.5mm feld > q <u>porphyritic rhyolite</u> pale grey, siliceous; commonly well coarsely flow banded, & locally finely flow banded.</p> <p>← partitic lower part</p> <p>superb hyaloclastite breccia clasts average 1.5-2cm.</p>		
92m								<p>? beds overturned by intrusion above</p> <p>← abundant grey 2-3% 0.5-1mm feld-phyric lavo lithics</p>		
95m								<p>Thick, massive, well sorted pale grey, <u>feld >> pumice > q</u>, volc sandst mass flow</p> <p>Feld xtals 50-75%, q, 2-3% 0.5-1mm, pumice shreds 5-20%</p> <p>Interpreted as reworked CVC pumice breccia with minor q xtal component mixed in. Part of sequence below, not the sill and mass flow succession above.</p> <p>← (black mud ripups) Similar to some Rosebery TSV sandstones</p>		
111m								<p>sharp</p>		
120										

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 5

SHEET 4 OF 10

- Bedding
- Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ⊞ Broken core
- ⋯ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	EL 5/95
PROSPECT :	White Spur (south)
DATE :	11.2.98
LOGGED BY :	Rod Allen

427332

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.		ROCK	ALTERATION
120								<p>black mudst-siltst >> <u>abundant f-mg white</u> <u>carb altered sandst laminae</u> (≤ 4mm, mainly 1mm thick)</p> <p>1% py along bedding planes.</p>		
130			↕ So averages 35" →							
140										
150										
160				grading ↑				<p>153m ————— gradational contact</p> <p><u>thin - thick bedded</u> <u>fg - vfg grey sandst.</u></p>		

REMARKS

- Bedding
- ⊥ Cleavage
- ⋈ Foliation
- ~ Fault, Shear
- ⚠ Breccia
- ⊠ Broken core
- ⋈ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	EL 5/95
PROSPECT :	White Spur (south)
DATE :	11.2.98
LOGGED BY :	Rod Allen

427333

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.		ROCK	ALTERATION
160								<p>↑ starts to fine upwards more distinctly</p> <p>pale grey-buff, alternating diffuse & well planar laminated f-mg feld >> q (2%) volc sandst.</p> <p>Well sorted, homogeneous appearance</p>		
170			↕ So averages 25°							
180								<p>180m interbedded vfg feld > pumice - mica ± q sandst & f-mg feld sandst.</p>		
								<p>182m pale green-grey, diffuse planar stratified f-mg feld-sandst</p> <p>Well sorted.</p>		weak ser-carb, trace py
190								<p>190m Thinly interbedded buff fg sandst & medium grey siltst - vfg sandst. Feldspathic.</p> <p>Approx. equal proportions.</p> <p>? dilute fg thin turbidites.</p>		
200			↕ So average 15°							

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP 5

SHEET 6 OF 10

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚠ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↖ Narrow vein
- * Visible gold

PROJECT :	EL 5/95
PROSPECT :	White Spur (south)
DATE :	11.2.98
LOGGED BY :	Rod Allen

407851

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							ROCK	ALTERATION
200						<p>200.5m</p> <p>pale green-grey fg homogen. sandst (feld-rich) → thin intervals interlaminated sand & grey siltst.</p> <p>Probably fg turbidites; interlam parts are probably bed tops.</p>		
210						<p>206.6m</p> <p>Black mud/siltst → 1-2% 1-10mm feld-crystal-rich sandst laminae</p> <p>Monotonous. Sandst laminae intense impregnated by pysh & white carb altered.</p> <p>Black mud/siltst has 2-3% py laminae.</p> <p>This rock probably a good conductor.</p>		mod-stony py + pysh impregnation (2-3%) & white carb alteration of sand beds.
220				<p>50.47 cleav 35°</p>		<p>Sandst laminae/beds marked schematically</p>		
230								
240						<p>237.2m</p> <p>mud-matrix slurry turbidite</p>		

REMARKS

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↖ Narrow vein
- * Visible gold

PROJECT :	EL 5/95
PROSPECT :	White Spur (south)
DATE :	11.2.98
LOGGED BY :	Rod Allen

417330

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY
				<small>16 4 1 4 16 22</small> <small>SIL. SER. PY.</small>			<small>ROCK ALTERATION</small>
240		Similar texture bed forms to unit directly above CVC primitive bx Q. Probably equivalent to "zebra rock" in Cens!	S ₀ 45° cleav 30°		↑ gb	dark grey siltst & pale grey to buff, planar stratified, 1-2mm feld >> mica-q sandst. Feld up to 60% q 2-5%. Mica xtals 0.5-3mm 2-5%. Some normal grading but mainly nonsystematic grain size fluctuations. Some sandst beds still cg at top. Dark grey siltst laminae 246-7m common in sandst beds.	
250			minor fault 15cm vein q		↑ gb	interbedded dark grey pyritre siltst & black silt-matrix feld >> q-mica sandst beds Abundant soft state deformation, & mixing of sand & silt beds, suggests slumping soon after sedimentation. Sandst beds have 3% volc q crystals (broken) and 10-30% 1-2.5mm feld & 2-4% mica possibly of basement derivation not is altered biot xtals.	
260			brittle tectonic bx broken core		↑ gb	260.5m ← pale grey siltst - vfg sandst not distinctly tuffaceous interbedded dark grey siltst & feld > q, ± lithic sandst beds 3-4% volc q in sandst, reworked possible juvenile, possible basement micas clast > than any unit below. clast > matrix-supported tectonic breccia, probably fault-related. Some rounded milled clasts (all siltst), pale tan carb bx in fill 270.8m ← 3-4% 0.5-1.5mm q xtals	
270				minor brittle-ductile fault 2cm q-carb 2vem		↑ gb	medium-dark grey siltst >> thin fg sandst beds quite pyritre, 1-2% py streaks, bedding-parallel bands & dissem
280							

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP5

SHEET 8 OF 10

- Bedding
- ⊥ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ↗ Narrow vein
- * Visible gold

PROJECT :	EL 5/95
PROSPECT :	White Spur (South)
DATE :	11.2.98
LOGGED BY :	Rod Allen

427336

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY
					SIL. SER. PY.		ROCK ALTERATION
280				1 4 16 32		<p>medium grey > buff siltst fg sandst</p> <p>↑ 2.85-2m</p> <p>buff coloured, feld >>> q crystal-rich, stratified crystal-pumice sandst</p> <p>feld crystals up to 50% of rock Qz crystals 0.5- 1.5mm, up to 2% rarely but mainly < 1%.</p> <p>← 1-2% 1mm q xtals</p> <p>Moderate to good sorting.</p> <p>Sulphide dissem throughout, preferentially replaces feld xrtals and forms streaks & thin layers along bedding planes.</p> <p>← 60mm grey siltst clast</p> <p>← 30mm silt clast</p> <p>← no q xtals</p> <p>Interpreted as re- worked pyroclastic debris, mainly derived from pumice & breccia unit below</p> <p>← syntect vein</p> <p>← grey siltst irregularly mixed into pumice-xtal sandst-bx</p> <p>← medium grey pumiceous siltst-vfg sandst.</p> <p>307.0m</p>	<p>buff, weak-moderate ser-carb - < 1% py, overprinted by buff siltst carb veins.</p>
290		hydraulic brecciation pink carb fill		So 48'		<p>good graded bed.</p>	
300		post-S2 tectonic brecciation, carb fill		shear		<p>← 60mm grey siltst clast</p> <p>← 30mm silt clast</p> <p>← no q xtals</p> <p>Interpreted as re- worked pyroclastic debris, mainly derived from pumice & breccia unit below</p> <p>← syntect vein</p> <p>← grey siltst irregularly mixed into pumice-xtal sandst-bx</p> <p>← medium grey pumiceous siltst-vfg sandst.</p> <p>307.0m</p>	<p>buff, moderate, ser >>> pale brown carb. 1-3% dissem to sparsely pygns</p> <p>Overprinted by bx + pale brown carb veinlets</p>
310				rock q-ser altered & mineralized pre-S2, then brecciated post or late S2 then veined with pale brown carb.		<p>↑ increase 292-310m sulphide</p>	
320						<p>becomes finer, granular- sandy in top couple of metres, but no grading to siltst. The overlying siltst has been irregularly mixed into the top of the pumice breccia prior to lithification.</p> <p>↑ increase dissem pygns sparsely to 2%</p> <p>Top of pumice breccia could have been eroded off, then siltst deposited, then the two mixed by slumping</p>	<p>buff coloured weak-moderate ser >>> pale brown carb. 1-3% dissem to sparsely pygns</p> <p>Overprinted by weak carb veins infilling weak lithification.</p>

REMARKS

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : <u>EL 5/95</u>
PROSPECT : <u>White Spur (South)</u>
DATE : <u>10.2.98</u>
LOGGED BY : <u>Rod Allen</u>

427337

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY
320						<p><u>Massive, 20-30% 2mm feld-phyrte rhyolitic pumice bx</u></p> <p>pumice bx texture well preserved in silicified areas.</p> <p>Silicification with dissem sulphide similar to distal expression of ore zone at Rosebery & Hercules.</p> <p style="text-align: center;">main mineralised zone ↑ 330.5 m</p>	<p>ROCK</p> <p>ALTERATION</p> <p>silica-sulph rock brecciated then heated with syntect pale brown carb. Minor of gn in late stages.</p> <p>white strong siltite with 1-2% alkali glass > sp overprinted by bx; pale brown carb veinlets</p>
330						<p>10mm fine granular leucite-sphere rich lithic</p>	
340						<p>diffuse/obscure contact</p> <p>339.5</p> <p><u>15% 2mm feld-porphyrte rhyolite/dacite</u> finely perlitic groundmass. < 5% < 30m white & after chalcedony lenticular amygdalae.</p> <p>343.3 sharp/rapid change in texture but no obvious contact.</p>	<p>greyish green mottled q-alb & chl > epid abundant < syntect q > chl veinlets</p>
350						<p>1.5cm fb perlitic or fb pumice</p> <p><u>Massive, 20-30% 2mm feld-phyrte rhyolite/dacite pumice breccia</u></p> <p>Weak-moderate mottled ser-alb > carb & chl-alb alterations. No distinct frame.</p> <p>Scattered good relict tube pumice breccia textures.</p> <p>1% sphere-leucox, dissem</p>	<p>← tube pumice texture</p>
360						<p>← tube pumice bx</p>	<p>ser-q > carb buff & leached</p>

REMARKS

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	EL 5/95
PROSPECT :	White Spur (South)
DATE :	10. 2. 98
LOGGED BY :	Rod Allen

427333

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							ROCK	ALTERATION
360						<p>Round-vesicle pumice texture encloses/rims feld phenos and is difficult to distinguish from perlite in unit below. But only the pumice breccia has the pumice, and only the rhyolite intrusion has amygdaloes.</p> <p>-364.8 15mm granular buff lithic</p>		buff sandy carb overprints
370						<p>↑ diffuse boundary increase in feld xtal %</p> <p>367.8m</p> <p>15-20% 2mm feld-phyric rhyolite/dacite</p> <p>-370.5 25mm fg green-grey feld-textured rich lithic. Moderately cauliflower-shaped blob shaped</p> <p>white amygdaloes & roughs, with concentric banded q after chilled-agate margins ± nodular concentric banded pale buff carbonyl cotes.</p>		post-date
380						<p>-377.5 15mm green-grey granular feldspathic lithic</p> <p>1-2% dissen of sphere-leucor. Groundmass finely granular sandy textured = altered perlite texture; Local good relict perlite. Local streaky banding/foliation in groundmass is parallel to amygdale layering & is probably flow layering.</p> <p>carb</p>		q-sulphide veins, which in turn
390						<p>EOH 385.5m</p> <p>No pumice textures, no flame. Rare lithics similar to in pumice bx above. This rhyolite very similar appearance to the pumice bx above & can't be hard to find, this lithic type suggests the rhyolite represents intrusion of degassed magma into comagmatic pumice bx, just after the pyroclastic eruption.</p>		pale brown carb veins post-date, q-amygdale fill.
400								

REMARKS

22

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↖ Narrow vein
- * Visible gold

PROJECT : EL 5/96
 PROSPECT : WHITE SPUR
 DATE : _____
 LOGGED BY : Michael Vicary + Rod Allen

427340

HOLE DEPTH m	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY		
					SIL.	SER.	P.Y.		FORMATION	ROCK	ALTERATION
0											
10			201 S 204 S					← could be some pumice bxs here too.			
20			222.5 226.7 228.2								
30			236					← perlitic amygdaloidal feld-phyric rhyolite local hyaloclastic texture			
40								← perlitic amygd			
50											
60											
70											
80											
90											
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1280											
1290											

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP7 (SUMMARY)

SHEET 3 OF 3

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ┆ Narrow vein
- * Visible gold

PROJECT :	EL 5196
PROSPECT :	WHITE SPUR
DATE :	
LOGGED BY :	Michael Vicary + Rod Allen

427341

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
0-10		Lith geochem Anal - 405m should be good analysis	1 1/2 9.3			416.5 10cm subrounded cauliflower shaped, vfg microlitic, leucocr rich intermediate lithic, same as in Rosebery-Hercules FW			
10-30		Veins: amyg rare, 1 alteration weak				432m graded, chilled margin at 27°			
30-50		* Why is different to 380m in WSP5. Should be similar rocks!	1 1/2			↑ streaky banding sub-parallel to 15° to core axis ↓ flame-like texture pseudoflamme?			
50-90						488.4 10cm or more pumice box within the amygdaloidal rhyolite The pumice breccia appears to have in situ breccia textures: is it clast of pumice breccia or does it grade into the amygdal rock?			
90-100						519.8-530.0 probable coherent dacite Good coherent porphyritic texture, gradational contacts			
100-120						538.0-542.0 probable coherent dacite			
120-140						560.50 561.0-598.9 pseudo eutaxitic swirling fb + amyg texture of wpps around scoria as blobs probable coherent dacite.			
140-160						vfg homogeneous non- clastic groundmass textures			

REMARKS COH=598.9m

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8 (SUMMARY)

SHEET 1 OF 2

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	EL 5/96
PROSPECT :	WHITE SPUR
DATE :	
LOGGED BY :	Michael Veeney + Rod Allen

427042

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
0-8.4						0-8.4 - ^{early} mafic intrusion 7-10% feld > q > biot porphyritic clasts identical to intrusion below 8.4-21.1 Black siltstone minor 10-15% f > q, sericite rhyolite clasts	C49F	VDLE	
8.4-21.1						probably peperite from below	C49S	SILT	
21.1-47.05						21.1-47.05 Rhyolite intrusion 7-10% locally 15% !! feld > q > biot porphyritic Intrusive peperite top contact	Cp	IRCL	
47.05-64.7						47.05-64.7 Black siltstone	C49S	SILT	
64.7-85.2						some black mud inclusions in top suggests unit intrusive. 64.7-85.2 Rhyolite intrusion Same rhyolite type as above	Cp	IR71	
85.2-117.0						85.2-117.0 Black siltstone	C49S	SILT	
117.0-120.0						117.0-120.0 Interbedded black siltstone and ashy siltstone			VDLE + SILT
120.0-170.3						120.0-170.3 Interbedded ash siltstone and Fgr volcanoblastic sandstone	C49F	VDFA VDSE	VDLF
170.3-215.2						170.3-215.2 Black siltstone	C49S	SILT	VDLF

REMARKS

427346

- Bedding
- ┌ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT :	EL 5196
PROSPECT :	WHITE SPUR
DATE :	
LOGGED BY :	Michael Vicary + Rod Allen

HOLE DEPTH m	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY									
					SIL.	SER.	PY.		FORMATION	ROCK	ALTERATION							
0-10																		
10-20								215.2-218.2	Volcaniclastic sandstone									
20-30								218.2-243.2	Interbedded black siltstone and ashly siltstone									
30-40								243.2-264.9	Interbedded ashly siltstone and fgr volcaniclastic sandstone.									
40-50								264.9-274.2	M-gr volcaniclastic sandstone									
50-60								274-276.3	amyl feld-rhyolite									
60-70									concentric q-filled lenticular amyl dials.									
70-80								279.7-385.3	M gr Feldspar phytic volcaniclastic sandstone (pumice breccia)									
80-90																		
90-100																		

REMARKS

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	WHITE SPUR EL5/96
PROSPECT :	WHITE SPUR
DATE :	Nov-DEC 1997
LOGGED BY :	M VICARY + Rod Allen

427944

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY		
					SIL.	SER.	PT.		FORMATION	ROCK	ALTERATION
0-5.0								No Core			
5.0-13.2								Graded top to mafic flow weakly 13.2-31.45 Polymict mafic flow breccia 5-10% 1-5mm f > q > biot rhyolite clasts >> 10-15% f > q rhyolite & one fg amygd andesite. Probably only main c type could be derived from underlying unit. superb piperitic hyaloclastite bre 31.45-169.2 Coherent and brecciated Rhyolite Intrusive contact suggests rhyolite intrusive	CP	IRL	
169.2-189.8								Black siltstone	CP	IRL	
189.8-197.0								sheared + tension fault zone	CP	IRL	
197.0-199.1								Black siltstone Cuss	CP	IRL	

abundant large
black
mudst rhyolite
clasts

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9 Summary

SHEET 2 OF 3

427340

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⊠ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	
DATE :	
LOGGED BY :	Michael Vicary + Rod Allen

HOLE DEPTH	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
							FORMATION	ROCK	ALTERATION	
200				181		199.1-207.8 Brecciated Rhyolite intrusion	Co	TRAB		
210						207.8-217.2 Black siltstone	CySS	SILT		
220						217.2-226.5 Graded volcanoclastic	Cym	VDFF		
230						abundant gy. spicules, some 2-5% 1mm f-g porphyritic rhyolite lith.				
240						226.5-355.0 Black siltstone				
250						feld. xtal-rich sandst, may correlate with 95-111m in WSP-5				
260				FAULT						
270										
280										
290								CySS	SILT	
300										
310										
320										
330										
340										
350						355.0-358.8 f-m gr vlc sst	Cym		VDFF-VDFFM	
360						358.8-378.0 f-gr ashly vlc sst + ashly siltstone	Cya	VDFA	S-5	
370										
380						378.0-397.7 Feldspar phytic volcanoclastic sandstone (M gv)	Ccv	VDFFM	S-6	
390										
400										
REMARKS										

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP9 SUMMARY

SHEET 3 OF 3

PROJECT :	
PROSPECT :	
DATE :	
LOGGED BY :	

427340

- | | |
|--------------|----------------|
| Bedding | Disseminated |
| Cleavage | Massive |
| Foliation | Pervasive |
| Fault, Shear | Narrow vein |
| Breccia | * Visible gold |
| Broken core | |

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY		
					SIL	SER	PX		FORMATION	ROCK	ALTERATION
400								397.7-404.6 Mg. feldspar phyrn. ash siltstone (well bedded)			SP-6
410								404.6-415.0 Poorly bedded dacitic vlc sst.	SP-7	VDIM	SP-7
420								415.0-420.6 Interbedded black siltstone and volcanoclastic sandstone	Cum C45	VDIM	
430								420.6-422.4 Black Siltstone	Cum	VDIM	
440								422.4-424.4 Black Siltstone	Cum	SILT	
450								424.4-455.1 Interbedded volcanoclastic sandstone, ash siltstone and black siltstone	Cum C45	VDIM	VDIM/SILT
460								455.1-459.0 Black siltstone	Cum	SILT	
470								459.0-470.0 ash siltstone + vlc sandstone	Cum C45	VDIM	
480								470.0-473.8 Repartic Rhyolite + ash siltstone	Cum C45	VDIM	SP-7
490								473.8-476.0 vlc sst	Cum	VDIM	
500								476.0-508.0 Mg. feldspar phyrn volcanoclastic sandstone	Cum	VDIM	OA-7
510				EDH = 508.0m							AO57

REMARKS

APPENDIX 2

Petrographic descriptions of samples from WSP-5 and WSP-7

Petrographic descriptions of samples from WSP-5 and WSP-7

Sample number: WSP5-295.4 Rock and thin section description

Location: Drill hole WSP-5, 295.4 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Yellowish grey, planar stratified, feldspar » quartz crystal-rich volcanic sandstone at the transition between Central Volcanics Complex (CVC) pumice breccia and Dundas Group sediments and volcanoclastic rocks. Moderate sericite-carbonate alteration and 2-3% disseminated py>sp-gn.

Minerals in thin section, in order of abundance: sericite, quartz, albite, carbonate, sulphides (mainly pyrite), sphene/leucoxene, orthopyroxene (1%).

Primary textures: Moderately to well sorted, crystal-rich sandstone texture comprising 50% 0.8mm (average) altered plagioclase crystals, 2% 0.5mm broken quartz crystals, 1% rounded ?metamorphic quartz grains, 1% small orthopyroxene crystals and minor lithic grains, enclosed by secondary feldspar alteration and fine grained quartz-feldspar-sericite matrix. The matrix and secondary feldspar shows relics of tube pumice texture that suggest that most of the matrix was originally pumice. Hand specimen has diffuse planar thin bedding.

Tectonic fabrics: Distinct spaced stylolitic S1 foliation defined by wavy dark lines, which are concentrations of sulphides and sphene-leucoxene. S1 is overprinted by a pervasive moderate grain-shape foliation (S2), which is axial planar to small folds in the S1.

Alteration, veins: Feldspar crystals are strongly sericite>carbonate altered. Optically continuous secondary albite forms rims around and veinlets within the feldspar crystals. This albite has replaced pumice. This secondary (?diagenetic) albite is in turn enclosed by a fine grained quartz-feldspar mosaic with minor sericite. The latter may result from recrystallization of the coarse secondary albite. Sulphides are disseminated throughout the rock, but are especially concentrated along the bedding-parallel S1 foliation planes. This suggests that the sulphides predate S1, and demonstrates that they were deposited prior to S2 cleavage development. A few thin carbonate-sulphide (mainly sphalerite) veinlets occur and most appear to be relatively undeformed and consequently probably post-S2 in timing.

Interpretation/important relationships: This sample is interpreted as a reworked sandstone derived mainly from feldspar-porphyrific pumice breccia, but also with minor components of quartz-phyric volcanic debris and possibly some metamorphic basement grains. The first and main sulphide precipitation event occurred prior to S1 foliation and definitely before the main regional S2

foliation. Some sphalerite occurs in late, probably syn-tectonic, carbonate veinlets, and may have been remobilised from the earlier sulphide generation.

Sample number: WSP5-307.15 Rock and thin section description

Location: Drill hole WSP-5, 307.15 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Top contact of Central Volcanics Complex (CVC) pumice breccia. Irregularly mixed interval of pale yellow-green fine-grained feldspar » quartz-phyric rhyolitic pumice breccia-sandstone and grey pumiceous siltstone. 2-3% disseminated py-sp-gn. Overprinted by brecciation and carbonate veining.

Minerals in thin section, in order of abundance: sericite, quartz, carbonate, pyrite, sphalerite, galena, orthopyroxene (1%), sphene/leucoxene.

Primary textures: The pumice breccia-sandstone contains 10-20% strongly altered feldspar crystals, 1-2% small quartz crystal fragments and 1% small orthopyroxene crystals, set in a sericitic-altered probably originally pumiceous matrix. These primary textures are poorly preserved. The grey siltstone contains lesser thin fine-medium grained sandstone beds and laminae of coarser, more crystal rich composition. These sandstone beds contain up to 7% small broken quartz crystal fragments.

Tectonic fabrics: Both the pumice breccia-sandstone and the grey siltstone have a moderate stylolitic S1 foliation expressed as a concentration of opaques including sulphides. The S1 appears to be parallel to bedding and pumice compaction and is overprinted and folded by a pervasive foliation (S2) that is expressed as a preferred grain shape fabric in most minerals.

The rock is now a brittle breccia with the original open space between clasts filled with carbonate and sulphide. The orientation of S2 foliation is consistent within individual clasts within the breccia, but varies greatly from clast to clast. This and the undeformed character of the carbonate-sulphide fill, indicate that brecciation occurred post-S2.

Alteration, veins: The rhyolitic pumice breccia-sandstone is strongly sericite>Fe/Mn carbonate altered, whereas the grey siltstone-sandstone is moderately sericite-quartz altered. Disseminated py>sp-gn (3%) occurs in the pumice breccia-sandstone mainly as clots of sulphide+coarse sericite/muscovite+Fe/Mn carbonate replacing feldspar phenocrysts. The dark grey siltstone clasts contain 2-3% disseminated py>sp-gn, and the sulphide is especially concentrated along the thin sandstone beds. All this pre-brecciation alteration and mineralization is all clearly overprinted by the main S2 foliation; the sulphides are commonly foliated.

Matrix to the breccia comprises coarse grained, undeformed dark Fe/Mn carbonate and undeformed sp>gn-py. This undeformed sulphide is a second generation of mineralization, but could be derived by leaching/flushing out of the more soluble sulphides from the wall rocks into dilational sites in the tectonic breccia.

Interpretation/important relationships: The hand specimen shows irregular, fluidal mixing of the pumice breccia-sandstone and the grey siltstone even within individual clasts of the breccia. This indicates a fluidal mixing of the two rock types prior to the brecciation.

The relationships in the drill core, hand specimen and thin section, indicate the following sequence of events: (1) the pumice breccia-sandstone was overlain by grey siltstone-sandstone, (2) sericite-Fe/Mn carbonate±quartz alteration and py>sp-gn mineralization occurred in both rock types largely by impregnation and replacement; in the bedded rocks mineralization preferentially impregnated along coarser more crystal-rich beds, (3) slumping occurred prior to lithification and either before or shortly after mineralization, and resulted in fluidal mixing of the rocks, (4) S1 compaction-dissolution foliation occurred during and/or after mineralization, (5) all rocks were foliated (S2) during the main regional compressional deformation, (6) brittle brecciation, probably related to faulting, formed breccias of rotated clasts, (7) open space between the clasts was infilled by cream-tan (Fe/Mn bearing) carbonate and sp-gn>py with no tectonic foliation.

Sample number: WSP5-309.2 Rock and thin section description

Location: Drill hole WSP-5, 309.2 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Top contact of Central Volcanics Complex (CVC) pumice breccia. Pale green with cream spots, strongly sericite-carbonate altered, 20-25% 2mm feldspar-phyric rhyolitic pumice breccia. 2-3% disseminated py > gn > sp.

Minerals in thin section, in order of abundance: sericite, carbonate, quartz, ?albite, pyrite, galena, sphalerite, orthopyroxene (1%), sphene.

Primary textures: A distinct porphyritic texture of 20-25% 2mm feldspar phenocrysts in fine grained matrix is preserved because the phenocrysts are pseudomorphed by prominent sericite-carbonate aggregates. Minor small phenocrysts of orthopyroxene (relatively unaltered) and clinopyroxene or hornblende (replaced by carbonate+opaques) also occur. The matrix comprises fine grained, foliated sericite with lesser spots, patches and diffuse veins of quartz>sulphide. Primary textures are completely obliterated by the sericite alteration, but well preserved tube pumice texture occurs in the quartz spots and patches associated with the sulphide.

Tectonic fabrics: One main moderate pervasive foliation, best expressed as pervasive foliation of matrix sericite and as sericite±quartz beard growths on feldspar phenocrysts.

Alteration, veins: 15% of the rock comprises spots, patches and diffuse veins of quartz>sulphide>coarse muscovite (py>gn>sp) alteration; these occur both in the matrix and within the feldspar phenocrysts. The quartz-sulphide alteration within the matrix is enclosed by strong fine grained sericite alteration. The sericite is foliated and therefore is pre- to syn-cleavage in timing. Quartz-sulphide alteration locally preserves good relict tube pumice texture, is enclosed by sericite with no relict primary textures, and locally has sericite or quartz pressure shadow beard growths. Therefore the quartz-sulphide alteration must be earlier than sericite alteration and is most likely pre-cleavage in timing. Phenocrysts are 80-90% replaced by sericite-carbonate. A couple of dark (Fe/Mn-bearing) carbonate veinlets cut all other textures, structures and alteration, including the quartz-sulphide alteration and the sericite-carbonate alteration of the feldspar phenocrysts. These veins are late- to post-cleavage.

Interpretation/important relationships: The sulphide occurs in quartz spots, patches and diffuse veins together with minor coarse muscovite. This association, style, and relative timing of mineralization is identical to one of the main alteration/mineralization types along the ore horizon at Rosebery and Hercules. It is most likely that a first stage of carbonate alteration, and the quartz-sulphide alteration were early alterations and preserved some pumice textures. Strong sericite alteration subsequently enveloped the rock and obliterated all pumice textures except for those preserved in the quartz spots. The sericite was in turn overprinted by the main cleavage and cross cut by a late generation of carbonate veining.

Sample number: WSP5-319.5 Rock and thin section description

Location: Drill hole WSP-5, 319.5 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Top of Central Volcanics Complex (CVC), 10m below top of main pumice breccia unit. Pale grey, strong quartz-albite altered, 15-20% 1.5mm feldspar-phyric rhyolitic pumice breccia. 2% disseminated gn py > sp.

Minerals in thin section, in order of abundance: plagioclase, quartz, carbonate veinlets (4%), sericite (5%), orthopyroxene (1%), sphene, ?magnetite, pyrite, galena sphalerite.

Primary textures: Well preserved tube pumice breccia texture of randomly oriented, 5mm average, completely uncollapsed, tube pumice clasts. The pumice is replaced by both coarse grained albite±quartz mosaics and finer grained albite-quartz mosaics. The best preserved pumices are completely replaced by coarse

interlocking albite>quartz mosaics. The albite-quartz mosaic completely overprints/replaces both the vesicles and the vesicle walls, but the finely vesicular pumice texture is well preserved due to a dusting of abundant tiny (1 μ m) inclusions within the albite within the vesicles, and especially along the inside walls of the vesicles. In plane polarised light this results in the vesicles showing up as darker streaks, tubes and ovoid bubbles separated by relatively clear (clean albite) areas that were the glassy pumice framework (vesicle walls). The pumices contain 15-20% 1.5mm (average) euhedral and broken plagioclase phenocrysts » tiny orthopyroxene and albite-opaque altered clinopyroxene/hornblende phenocrysts. Feldspar phenocrysts are commonly rimmed by faint round-vesicle pumice texture, which grades outward to the more streaky tube pumice texture.

Tectonic fabrics: Weak foliation, not distinct in thin section.

Alteration, veins: Pervasive strong albite \pm quartz replacement of pumice, and albitisation of plagioclase phenocrysts. Both feldspar phenocrysts and matrix have slightly more fine sericite flecking (2-5%) than below at 332.6m, but still the feldspar is fairly clean. Orthopyroxene phenocrysts are unaltered. Sulphides occur as pervasive fine dissemination through the albite-quartz altered pumice and as replacement of original ?magnetite and ferromagnesian phenocrysts. There is a partial association of sulphide with small quartz alteration spots. There is no vein control on sulphide distribution.

A few weakly deformed, dark, dusty (Fe/Mn-bearing) carbonate veinlets cut across the thin section. These veins are poor in sulphide and show no preferred association with sulphide occurrence. They probably post-date sulphide mineralization.

Interpretation/important relationships: Sulphide is pervasively disseminated through the rock and shows no association with veins. Late carbonate veins show no association with mineralization. Albitisation appears to have sealed this pumice breccia, preserving primary textures and making the rock competent and resistant to deformation.

Sample number: WSP5-332.6 Rock and thin section description

Location: Drill hole WSP-5, 332.6 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Top of Central Volcanics Complex (CVC), 23m below top of main pumice breccia unit. Mottled-blotchy pale grey and green (moderately qtz-albite and chlorite-epidote altered) 20% 2mm feldspar-phyric rhyolitic pumice breccia.

Minerals in thin section, in order of abundance: plagioclase, quartz, chlorite, carbonate, sericite, orthopyroxene, epidote, ?fluorite (in carbonate vein), sphene, ?magnetite, pyrite (\leq 1%).

Primary textures: Well preserved porphyritic texture of 20% 2mm euhedral and broken plagioclase phenocrysts » tiny orthopyroxene and carbonate-altered ?clinopyroxene/ hornblende phenocrysts, set in a fine grained to coarse grained plagioclase-quartz mosaic matrix. The matrix contains many faint relics of non-welded fibrous tube pumice clasts in fairly random orientation, and it appears that the whole rock was composed of tube pumice clasts. Feldspar phenocrysts are commonly rimmed by faint round-vesicle pumice texture, which grades outward to tube pumice texture.

Tectonic fabrics: Weak-moderate pervasive (S2) foliation.

Alteration, veins: Both feldspar phenocrysts and matrix are albitised and are clean, i.e. they have unusually little sericite flecking. Orthopyroxene phenocrysts are unaltered. Chlorite has patchy distribution between patches and spots of albite. Both albite and chlorite are weakly deformed and probably pre- to syn-cleavage in timing. Carbonate (<5%) occurs as small patches (?after mafic phenocrysts) and as foliated (pre- to syn-cleavage timing) and unfoliated (post cleavage timing) thin veinlets. One irregular vein has an fluorite centre (isotropic, cubic cleavage, low refractive index) and pale carbonate margin. This vein is weakly foliated.

Interpretation/important relationships: This is a fairly typical felsic tube pumice breccia. Albitisation appears to have sealed this pumice breccia making it competent and resistant to deformation and subsequent alteration. There could be a correlation between strong albite alteration and clean sericite-free (albitised) feldspar phenocrysts and matrix. This would suggest that albitisation predated sericite alteration.

Sample number: WSP7-151.6 Rock and thin section description

Location: Drill hole WSP-7, 151.6 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Top of Central Volcanics Complex (CVC), 6m below faulted top to unit, but interpreted also to be near primary stratigraphic top. Pale yellow-green, strongly (25% 2.5mm) plagioclase-phyric pumiceous clasts 5-15cm in size, clast- to matrix-supported in pale grey, sandy-textured pumice breccia-sandstone matrix. Moderate bleached sericite-carbonate alteration.

Minerals in thin section, in order of abundance: quartz, plagioclase, sericite, carbonate, sphene + opaques.

Primary textures: The large pale pumiceous clasts of the hand specimen are large, probably single, pumice clasts with sharp irregular feathery margins. The pumice clasts contain abundant poorly preserved plagioclase phenocrysts surrounded by poorly preserved, uncollapsed round-vesicle pumice texture. The matrix to these large pumice clasts is a much better preserved (less sericite-

carbonate altered) tube pumice sandstone composed of closely packed, uncollapsed tube pumice and glass shards and scattered feldspar phenocrysts.

Tectonic fabrics: Moderate S2 foliation overprints a moderate but distinct spaced S1 stylolitic foliation with concentration of leucoxene, sericite \pm chlorite.

Alteration, veins: The large pumice clasts have moderate to strong sericite alteration of the groundmass (pumice) and moderate to strong sericite-carbonate alteration of the feldspar phenocrysts. Tiny fine-grained quartz-feldspar spots are scattered in the groundmass of the big pumice clasts and are densely packed in the pumice sandstone matrix. Primary textures are much better preserved in these spots than in the enclosing sericitic domain. These spots are interpreted as diagenetic devitrification or zeolite or feldspar alteration spots early in the rocks alteration history; they predate the sericite-carbonate alteration and the S1 and S2 foliations.

The relicts of round-vesicle pumice texture in the large pumice clasts comprise small areas of vesicle walls and vesicle infill pseudomorphed by feldspar, and variably overprinted by the sericite alteration.

Interpretation/important relationships: This rock is a non-welded, uncollapsed, felsic pumice breccia. The rock formed either by the simultaneous settling of large pumice clasts and small pumice shreds from subaqueous suspension, or alternatively is a pumiceous rhyolite autobreccia (hyaloclastite). Sample WSP7-156 below suggests the latter. The original glassy pumice was at least partially devitrified/alterated to secondary feldspar prior to the main sericite-carbonate alteration, and the feldspar alteration predates the stylolitic S1.

Sample number: WSP7-156.0 Rock and thin section description

Location: Drill hole WSP-7, 156.0 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Top of Central Volcanics Complex (CVC), 11 m below faulted top to unit, but interpreted also to be near primary stratigraphic top. Mottled pale yellow-green and darker green, strongly (25% 2.5mm) plagioclase-phyric pumice breccia. Moderate bleached sericite-chlorite-carbonate alteration.

Minerals in thin section, in order of abundance: quartz, plagioclase, sericite, chlorite, carbonate, ?clinopyroxene/hornblende, orthopyroxene, sphene + opaques.

Primary textures: The rock is a close-packed, jigsaw-puzzle textured in situ breccia of pumiceous feldspar » pyroxene porphyritic rhyolite or dacite. There are 25% 2.5 mm plagioclase phenocrysts, which enclose 1-2% 0.3mm microphenocryst aggregates of equant chlorite-altered octahedral ?clinopyroxene (or hornblende) > prismatic elongate relatively unaltered orthopyroxene, and

sphene. The physical relation of these phenocrysts indicates a crystallization sequence of orthopyroxene, clinopyroxene/hornblende, then feldspar.

The clasts of the breccia average 1-4 cm in size, and are separated by thin veins of pumice-shred "sandstone", which itself commonly has jigsaw-fit in situ breccia texture. Both the large clasts and the veins of pumice shred sandstone consist of streaky pumiceous texture with lesser areas of small round-vesicle pumice. The pumiceous groundmass has a fine densely quartz-feldspar spotted texture overprinted on the streaky pumice fabric. This spotted texture is probably a devitrification texture. Relic pumiceous textures are best preserved in the quartzofeldspathic spotted domains, and the orientation of the streaky pumice texture remains fairly constant through the whole thin section.

Tectonic fabrics: A distinct spaced S1 foliation is subparallel to the streaky pumice fabric. These two fabrics are overprinted almost at right angles by a moderate pervasive S2 foliation.

Alteration, veins: Feldspar phenocrysts are moderately to strongly replaced by sericite > carbonate. The pumiceous groundmass has a less sericitic, more quartz-feldspar rich composition, and appears less altered. The quartz-feldspar spots have a patchwork mosaic texture that may be a primary/diagenetic devitrification texture. Minor chlorite occurs with the sericite in the pumiceous groundmass.

Interpretation/important relationships: This interval of drill core and the thin sections at 151 and 156m have important implications for the origin of the Rosebery-Hercules-White Spur pumice breccias. The well preserved in situ breccia textures indicate that at least part of this widespread pumice breccia unit is an autoclastic brecciated pumiceous rhyolite lava/intrusion rather than a pyroclastic pumice unit. This thin section is also one of the best preserved examples of the mafic microphenocryst aggregates in the Rosebery-Hercules-White Spur pumice breccias.

Sample number: WSP7-240.8 Rock and thin section description

Location: Drill hole WSP-7, 240.8 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Just below top of Central Volcanics Complex (CVC). Boldly perlitic 15% 2mm feldspar-porphyrific rhyolite intrusion.

Minerals in thin section, in order of abundance: plagioclase, quartz, sericite, chlorite, sphene + opaques.

Primary textures: 15-20% 1.5mm (average) euhedral unbroken plagioclase phenocrysts are enclosed by groundmass with superb weakly foliated perlitic texture throughout. Minor large lenticular quartz-filled amygdales. Perlitic

fractures overprint massive glass without any detectable flow or other primary fabric.

Tectonic fabrics: Weak pervasive foliation (S2).

Alteration, veins: The perlite comprises fine grained patchwork feldspar-quartz devitrification texture with weak sericite alteration, enclosing spots of more chloritic composition. These spots are probably relict kernals of unaltered glass that escaped the earliest phase of devitrification-alteration and were subsequently altered to clay or chlorite. Perlitic fractures have more quartz-feldspar rich composition. Feldspar phenocrysts are only very weakly sericite altered.

Interpretation/important relationships: Good example of coherent, originally glassy, poorly vesicular rhyolite.

Sample number: WSP7-297.3 Rock and thin section description

Location: Drill hole WSP-7, 297.3 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Upper part of Central Volcanics Complex (CVC). 10 cm finely strongly banded interval within massive feldspar porphyritic rhyolite.

Minerals in thin section, in order of abundance: plagioclase, quartz, chlorite, sericite, epidote, sphene + opaques.

Primary textures: 15-20% 1.5mm (average) euhedral unbroken plagioclase phenocrysts enclosed by groundmass with a prominent sub-perlitic fracture network texture. Fractures are green chlorite-filled. Between fractures is a fine-grained, interlocking, plagioclase mosaic devitrification or diagenetic alteration texture. The banded interval consists of alternating bands of massive groundmass and bands of finely flow banded, possibly moderately finely vesicular groundmass. The massive groundmass has minor ovoid quartz-filled amygdales.

Tectonic fabrics: Only a weak foliation (S2).

Alteration, veins: Weak chlorite-epidote alteration. Chlorite mainly in fracture network. Feldspar phenocrysts are only very weakly sericite altered.

Interpretation/important relationships: Relict subperlitic fracture texture superimposed on massive to faintly flow banded groundmass, and the euhedral phenocrysts, suggest that the rock was originally a glassy, coherent, poorly vesicular rhyolite lava/intrusion.

Sample number: WSP7-309.0 Rock and thin section description

Location: Drill hole WSP-7, 309.0 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Upper part of Central Volcanics Complex (CVC). Patchy pink feldspathic and yellow-green epidote-rich alteration of feldspar-hornblende-orthopyroxene porphyritic rhyolite with swirling amygdaloidal groundmass texture.

Minerals in thin section, in order of abundance: plagioclase, quartz, chlorite, epidote, orthopyroxene, sphene + opaques.

Primary textures: Unusual heterogeneous mixture of blobs and bands of weakly-moderately amygdaloidal rhyolite and scoraceous round-vesicle rhyolite. Amygdales are quartz-filled and have ovoid to spherical > streaky-elongate shapes. The groundmass has a very fine, streaky, swirling banded texture that is either a fine flow layering or a collapsed/welded froth texture. The presence of relatively unstretched, undeformed ovoid amygdales within this groundmass suggests that the amygdales result from secondary (late) vesiculation after formation of the flow layering or after collapse of the froth. Groundmass has coarse, irregular interlocking intense spherulitic devitrification texture that overprints the fine banded groundmass texture. Fan-radiating, bow-tie and irregular devitrification aggregates are more common than classical round spherulites.

Phenocrysts comprise 15% 1.5mm (average) euhedral unbroken plagioclase, 1-2% chlorite-altered diamond to hexagonal to irregular hornblende, 1% small unaltered prismatic orthopyroxene, and Fe oxide opaques.

Tectonic fabrics: Prominent strong stylolitic S1 marked by spaced wavy dark lines with concentration of opaques, epidote and chlorite. Only a very weak S2 foliation.

Alteration, veins: Weak chlorite-epidote alteration of groundmass and feldspar phenocrysts. Hornblende completely altered to chlorite and opaques. Orthopyroxene unaltered.

Interpretation/important relationships: Unusual heterogeneous mixture of scoraceous and poorly vesicular magma clots or bands. The obvious amygdales appear to have grown late, and post-date an earlier strong shearing or compaction of the glassy groundmass. Flow, compaction and vesiculation all predate spherulitic devitrification, which in turn predates weak chlorite-epidote alteration.

Sample number: WSP7-324.5 Rock and thin section description

Location: Drill hole WSP-7, 324.5 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Upper part of Central Volcanics Complex (CVC). Pumiceous, streaky flow layered, feldspar-hornblende/clinopyroxene-orthopyroxene porphyritic rhyolite with weak carbonate-sericite-chlorite-epidote alteration.

Minerals in thin section, in order of abundance: plagioclase, quartz, carbonate (calcite?), sericite, chlorite, epidote, orthopyroxene, sphene + opaques.

Primary textures: Well preserved coherent streaky pumiceous groundmass, locally autobrecciated. Phenocrysts are euhedral, unbroken, and occur as "knots" in this pumiceous groundmass. The phenocrysts are rimmed by round-vesicle pumice, which grades out into the streaky pumice. The large round vesicles are different to the ovoid quartz-filled amygdales of sample 309.0 m. The pumiceous groundmass has intense fine spherulitic patchwork devitrification texture under crossed nicols.

Phenocrysts comprise 15% 1.5mm (average) euhedral unbroken plagioclase, 1-2% chlorite-altered polygonal ?clinopyroxene/hornblende, 1% small unaltered prismatic orthopyroxene, and Fe oxide opaques.

Tectonic fabrics: Weak stylolitic S1 and weak S2 foliations.

Alteration, veins: Weak to moderate sericite-carbonate-chlorite-epidote alteration of groundmass and feldspar phenocrysts. ?Hornblende/clinopyroxene completely altered to chlorite and opaques. Orthopyroxene unaltered.

Interpretation/important relationships: Excellent example of mainly coherent, pumiceous rhyolite lava or intrusion. The streaky pumiceous groundmass is very similar to the fine banded groundmass of sample 309.0 m and suggests that both samples represent pumiceous coherent rhyolite. The coherent pumiceous froth of sample 309.0 m could have collapsed prior to devitrification, whereas sample 324.5 has uncollapsed pumice.

Sample number: WSP7-363.9 Rock and thin section description

Location: Drill hole WSP-7, 363.9 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Upper part of Central Volcanics Complex (CVC). Fresh brown-orange, strongly amygdaloidal, feldspar-hornblende-orthopyroxene-magnetite porphyritic rhyolite with spherulitic groundmass.

Minerals in thin section, in order of abundance: plagioclase, quartz, sericite, chlorite, epidote, orthopyroxene, sphene + opaques.

Primary textures: Well preserved porphyritic texture of completely euhedral unbroken phenocrysts set in a densely spherulitic, flow banded, and strongly quartz-amygdaloidal groundmass. Amygdales are mainly fluidal round, ovoid and fluidal lenticular shapes and range from <0.1mm up to 1cm. The amygdales locally rim feldspar phenocrysts and are in turn rimmed by spherulitic texture.

Phenocrysts comprise 15% 1.5-2mm (average) plagioclase, 2% 0.3-1.5mm epidote-altered hexagonal-equant to prismatic-elongate hornblende, Fe oxide (magnetite), and <1% small unaltered prismatic orthopyroxene. Feldspar has overgrown orthopyroxene and some Fe oxide, but hornblendes form separate clusters with Fe oxide (i.e. do not appear overgrown by feldspar phenos).

Tectonic fabrics: Weak pervasive S2 foliation.

Alteration, veins: Groundmass relatively unaltered, feldspathic. Moderate fine sericitic alteration of feldspar phenocrysts. Strong epidote alteration of hornblende. Orthopyroxene unaltered.

Interpretation/important relationships: Excellent example of coherent, amygdaloidal rhyolite or dacite. The main mafic phenocrysts are clearly hornblende in this sample. This suggests that the epidote-chlorite altered mafic phenocrysts in the other samples are also probably mainly hornblende rather than clinopyroxene.

Sample number: WSP7-442.8 Rock and thin section description

Location: Drill hole WSP-7, 442.8 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Upper part of Central Volcanics Complex (CVC). Fresh brown-orange, strongly amygdaloidal, feldspar-hornblende-orthopyroxene-magnetite porphyritic rhyolite with spherulitic groundmass.

Minerals in thin section, in order of abundance: plagioclase, quartz, sericite, chlorite, epidote, orthopyroxene, sphene + opaques.

Primary textures: Well preserved porphyritic texture of euhedral phenocrysts set in a densely coarsely spherulitic and strongly quartz-amygdaloidal groundmass. Fibrous radial spherulitic texture is common. Amygdales are mainly round, ovoid and fluidal lenticular shapes and range from <0.1-1mm. The amygdales are rimmed by spherulitic texture. The spherulitic texture overprints a locally distinct, very fine, swirling streaky banding that resembles a eutaxitic welded shard texture, and which extends through the whole thin section in roughly the same preferred orientation. The fine swirling bands and streaks appear

fairly continuous and do not show any glass shard shapes. Consequently this fine banding could be a collapsed (and welded) froth texture in coherent rhyolite rather than a eutaxitic welding texture in a pyroclastic deposit. There is no distinct round-vesicle pumice texture rimming the phenocrysts. In fact the fine streaky banding of the groundmass extends right up to the phenocrysts and is locally pinched by the corners of phenocrysts. The rounded quartz-filled amygdales are virtually undeformed by any flow or compaction and consequently appear to post-date the banded groundmass fabric.

Phenocrysts comprise 15% 1.5-2mm (average) plagioclase, 2% 0.3-1.5mm epidote-chlorite altered hornblende, Fe oxide (magnetite), and <1% small unaltered prismatic orthopyroxene. The feldspar phenocrysts are commonly strongly shattered and partially dismembered in situ with quartz-filled amygdales between the pieces. This appears to be a primary pre-cleavage texture.

Tectonic fabrics: Weak to moderate pervasive S2 foliation.

Alteration, veins: Groundmass relatively unaltered, feldspathic. Moderate fine sericitic alteration of feldspar phenocrysts. Strong chlorite-epidote alteration of hornblende. Orthopyroxene unaltered.

Interpretation/important relationships: Excellent example of an unusual rock type: pumiceous spherulitic porphyritic rhyolite. The streaky pumiceous groundmass resembles a swirling eutaxitic fabric. This suggests that the pumiceous groundmass has been deflated/compacted. This occurred prior to spherulitic devitrification. The obvious amygdales appear to have grown late, after formation of the swirling groundmass compaction fabric, but before spherulitic devitrification.

Sample number: WSP7-469.9 Rock and thin section description

Location: Drill hole WSP-7, 469.9 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Upper part of Central Volcanics Complex (CVC). Brown-orange, feldspar-hornblende-orthopyroxene-magnetite porphyritic rhyolite with chloritic fiamme-like texture and clastic pumiceous matrix.

Minerals in thin section, in order of abundance: plagioclase, quartz, chlorite, sericite, epidote, orthopyroxene, sphene + opaques.

Primary textures: Well preserved primary textures. 20% 1.5mm (average) plagioclase > hornblende > orthopyroxene-magnetite porphyritic rhyolite. Rock has two groundmass domains. The main one is a continuous domain of very fine-grained quartzofeldspathic mosaic devitrification or diagenetic alteration texture enclosing 15-20% angular broken and euhedral phenocrysts. Broken phenocrysts are on average smaller than the euhedral ones, vary greatly in size

and shape, appear to be primary broken crystals rather than syntectonic dismembered crystals, and are more abundant than usual in the CVC pumice breccia rock type or the amygdaloidal rhyolites higher in drill hole WSP-7. This domain has many areas of faint, very fine, streaky banded tube pumice texture oriented parallel to the moderate tectonic foliation. There are minor (a couple of) areas of completely uncollapsed relict round-vesicle pumice texture rimming feldspar phenocrysts. The second domain forms about 20% of the rock and comprises many scattered aligned 4mm-4cm long fiamme-like lenses of coarser quartzofeldspathic mosaic devitrification texture that enclose large (1-3mm) euhedral phenocrysts and glomerocrysts (crystal clusters); there are no broken crystals in this latter domain. The coarse patchwork devitrification has a close-packed spotty texture with chlorite between the spots. This is partly a sub-spherulitic devitrification texture but could also in part be mimicking a perlitic fracture texture. The patchwork devitrification overprints a faint, very fine, banded to streaky groundmass texture that is a non-welded to perhaps welded tube pumice texture. Boundaries between the two domains are mainly sharp.

Tectonic fabrics: Moderate pervasive S2 foliation. A weak stylolitic, possibly S1 fabric subparallel to S2. Both primary and tectonic fabrics in this rock are subparallel.

Alteration, veins: Groundmass relatively unaltered, feldspathic. Extremely weak sericitic alteration of feldspar phenocrysts. Strong epidote alteration of hornblende. Orthopyroxene unaltered.

Interpretation/important relationships: Abundant pumice textures and broken volcanic crystals in the main or "matrix" domain suggests that the matrix is clastic and pumiceous. The local occurrence of round-vesicle pumice texture indicates the matrix is non-welded, or if welded, then only weakly. The coherent porphyritic texture of the fiamme-like lenses suggests that these are larger clasts of coherent (internally unfragmented) rhyolite, and the fine banded texture in them suggests they were pumice. The different primary textures in the two domains (broken versus unbroken phenocrysts, fine versus coarse devitrification) indicates that the fiamme-like lenses are primary features and not just an alteration texture. This rock is the most likely candidate for a weakly-moderately welded pyroclastic rock that I've ever seen from the Central Volcanics Complex of the Mount Read Volcanics. Alternatively this rock could be a weakly-moderately welded autoclastic facies of a pumiceous lava/intrusion. It is common in weakly welded (pyroclastic) rocks that the fiamme (large pumices) are more strongly welded than the matrix.

Sample number: WSP7-488.4 Rock and thin section description

Location: Drill hole WSP-7, 488.4 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Upper part of Central Volcanics Complex (CVC). Pink, feldspar porphyritic, autobrecciated, pumiceous rhyolite.

Minerals in thin section, in order of abundance: plagioclase, quartz, carbonate, sericite, sphene + opaques.

Primary textures: Well preserved primary textures. 15% 1-1.5mm (average) evenly scattered euhedral plagioclase phenocrysts. No distinct hornblende or pyroxene phenocrysts, but could be obscured by carbonate alteration. Groundmass has superb prominent streaky-banded tube pumice fabric, which highlights a distinct autobreccia texture of mainly blocky pumiceous clasts. The brecciation is pre-cleavage and is locally brittle-ductile (there is plastic deformation at the broken ends of some pumiceous clasts). The tube pumice texture varies in intensity/vesicularity from place to place from highly vesicular tube pumice to streaky vesicular rhyolite with local perlitic texture (classical and ladder perlite textures). The rock contains 5% large (up to 1cm) quartz-carbonate filled, ovoid to lenticular amygdales, which are parallel to the fine pumiceous fabric, but appear to have grown later in the pumiceous froth because they locally cross-cut the fine pumice fabric. Locally the large amygdales are vugh-like with large, inward pointing, prismatic quartz crystals. In crossed polars the groundmass shows a medium to coarse grained patchwork devitrification texture, typical of devitrified glassy felsic lavas.

Tectonic fabrics: No distinct tectonic fabrics; a relatively undeformed rock.

Alteration, veins: Moderate carbonate > sericite alteration of feldspar phenocrysts. Groundmass strongly devitrified to feldspathic mosaic, but only weak carbonate-sericite alteration.

Interpretation/important relationships: An excellent example of a tube pumice breccia that is an autoclastic lava/intrusion rather than a pyroclastic deposit. In this thin section it is clear that the streaky-banded groundmass texture is non-welded tube pumice rather than welded/compacted pumice or eutaxitic texture. The local perlitic texture indicates that the rock was not entirely intensely pumiceous. It must have been at least partly a moderately vesicular, moderately dense glass, because perlitic fractures can only form in moderately to very dense glass. The perlitic and patchwork devitrified parts of this thin section closely resemble the texture within the fiamme-like lenses of WSP7-469.9, suggesting they could be the same.

Sample number: WSP7-560.7 Rock and thin section description

Location: Drill hole WSP-7, 560.7 m; White Spur area, Mount Read Volcanics, Tasmania

Hand specimen and summary: Upper part of Central Volcanics Complex (CVC). Orange-brown, feldspar porphyritic, amygdaloidal, lithophysal rhyolite lava or intrusion. Fine streaky quartz lenses (amygdales) give the rock a pseudo-eutaxitic texture.

Minerals in thin section, in order of abundance: plagioclase, quartz, sericite, chlorite, carbonate, sphene + opaques.

Primary textures: Well preserved primary textures. 20% 1.5-2 mm (average) evenly scattered euhedral feldspar (very sericitised) > ?hornblende > magnetite, orthopyroxene phenocrysts. Magnetite phenocrysts (1%) are euhedral to strongly embayed. Groundmass is a fairly homogeneous coarse patchwork feldspathic devitrification mosaic. The patchwork mosaic overprints an order of magnitude finer microlitic to radiating fibrous spherulitic texture (resulting in a micropoikilitic snowflake texture). The patchwork devitrification overprints and mimics a swirling, partly banded, partly concentric, partly cauliflower-lobate lithophysal groundmass texture. Small and large quartz-filled fluidal-shaped ovoid to lenticular to crescent-shaped amygdales parallel the banding and lobate fabric and form 5-10% of the rock. It is the abundant small lenticular and crescent shaped amygdales that create the pseudo-eutaxitic texture seen in hand specimen. The fluidal shapes indicate the amygdales formed while the groundmass was molten. However, their parallel and intimate relationship to the lithophysal structures indicate they grew very late in the cooling history of the magma, during solidification and devitrification of the glassy groundmass. The lobate lithophysae structures are commonly centred on feldspar phenocrysts and on irregular to lobate amygdales. Between the large quartz-filled amygdales the groundmass appears non-vesicular.

Tectonic fabrics: Pervasive moderate foliation (S2). Local weak earlier spaced foliation at high angle to S2 that could be S1 or a primary fabric.

Alteration, veins: Strong sericite alteration of feldspar phenocrysts. Groundmass strongly devitrified to feldspathic mosaic, but only very weak sericite alteration. ?Hornblende phenocrysts strongly chlorite-epidote altered.

Interpretation/important relationships: Clearly a non-fragmental (coherent) rhyolite. The rock almost simultaneously exsolved vesicles and vughs, solidified to a glass, and devitrified to lithophysae structures. As in the other thin sections from WSP-7, this sample suggests that the large quartz-filled amygdales are a relatively late feature formed just before (and during) solidification. The coarse patchwork devitrification texture overprints and therefore formed a bit later (by recrystallization) relative to the fibrous to microlitic devitrification structure.

APPENDIX 15

Comments on RGC's Tasmanian Exploration Projects

Wally Herrmann

**GEOLOGICAL NOTE**

To Kim Denwer **Fax:** 0364 716644
 Supervising Geologist, RGC Exploration, Zechan TAS

From Wally Herrmann

Date 12 May, 1997

Subject **Comments on RGC's Tasmanian exploration projects**

Dear Kim,

This note presents my impressions of the geological settings of some of RGC's Tasmanian exploration projects gleaned from the discussions last week with yourself and Messrs. M. Vicary and D. Gregory, and my comments on the exploration philosophy and methods being applied.

In general, I consider RGC's current approach to VHMS exploration, based on following favourable horizons and identifying synvolcanic structures and geochemical and alteration vectors, is excellent. The commitment to drilling to ~400m below surface, on the basis that previous exploration has largely exhausted shallow potential, is also most commendable and is certain to improve interpretation of the volcanic setting and alteration intensity in every case and, with luck, may come up with some off hole DHEM targets for follow up drilling.

The array of geochemical methods being applied to identify vectors to mineralisation is impressive but could perhaps be improved by more systematic wholerock and immobile element geochemistry to quantify alteration intensity, quantify major component mass changes due to hydrothermal alteration and attempt to discriminate different styles and zones of alteration.

White Spur Creek EL 5/96

RGC's target here is to explore the contact zone between the Central Volcanic Complex (CVC) and the overlying White Spur Formation (WSF) on the basis that it represents the southern strike equivalent of the Rosebery-Hercules favourable horizon and therefore has high potential for stratabound VHMS deposits.

The CVC in the eastern part of the EL is not well differentiated by detailed mapping but the dominant lithotype appears to be massive rhyolitic pumice breccia similar to the Rosebery and Hercules footwall zones. The WSF consists of west facing graded coarse felsic mass flow polymictic breccias and quartz-feldspar crystal rich volcanoclastic sandstones passing up sequence and westward to interbedded turbiditic, micaceous greywackes of mixed volcanic-metasedimentary provenance and black siltstones. Although I'm regrettably not familiar with the sequence at Rosebery and Hercules, the contrast between feldspar phyric pumiceous rocks and quartz-feldspar phyric volcanoclastics certainly seems analogous and it is clear that the previous explorers, Pasminco, considered this correlation to be correct. The presence of massive sulphide clasts in parts of the basal WSF breccias, of course, supports the concept that the contact is a favourable horizon for VHMS deposits.

The area has had more or less blanket coverage by gradient array IP, TURAM and soil geochem surveys on ~200m line spacings in the 1970's, helicopter borne DIGHEM in 1984 and high resolution magnetic-radiometric survey in the early 1990's. IP picked out several anomalous trends in the WSF which are reasonably attributed to (and in some cases drilled and proven to be)

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ACN 001 426 946

ANNUAL REPORT
MARCH 1997 - MARCH 1998

TASMANIAN BASE METALS PROJECT
EL 5/96

WHITE SPUR

Vol 3 of 3

Appendices 16 - 19

MICROFILMED
FICHE No. 014663-76

HELD BY: RENISON LIMITED

MANAGER & OPERATOR: RGC EXPLORATION PTY LTD

98-4128

AUTHOR(s): Michael Vicary

ANNUAL REPORT-EL 5/96
WHITE SPUR-RGC EXPL.
M VICARY VOL 2 of 3

19 March, 1998

PROSPECTS: White Spur, Anneliese

MAP SHEETS:

1:25,000: Dundas
Oceana

1:100,000: Spohla

GEOGRAPHIC COORDS

Min East: 375 000 mE
Min North: 5358 000 mN

Max East: 379 000 mE
Max North: 5364 000 mN

COMMODITY(s): Zn, Pb, Cu, Au, Ag

KEY WORDS: White Spur Formation, Central Volcanic Sequence, Sulphide clast bearing mass flow deposits, Rosebery -Hercules ore horizon.

Distribution:

- o RGC Exploration Information Centre Reference:
- o RGC Exploration - Zeehan
- Department of Mines, Tasmania

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APPENDIX 17 White Spur Project CSAMT Survey Results, 1997

APPENDIX 18 White Spur Project Ground VLF and Ground Magnetic Survey Results, 1997

APPENDIX 19 Down Hole Magnetic susceptibility Results

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APPENDIX 16

White Spur Down-Hole Electromagnetic survey Results, June 1997

Chris Dauth

**INTERNAL REPORT****WHITE SPUR****EL 5/96****WHITE SPUR DOWN-HOLE ELECTROMAGNETIC
SURVEY RESULTS, JUNE 1997****Vol 1 of 1****HELD BY: RGC Limited****MANAGER & OPERATOR: RGC Exploration Pty Ltd****AUTHOR(s): Chris Dauth****19 January, 1998****PROSPECTS: Anneliese, Jone's Creek****MAP SHEETS: 1:100,000: Sophia 1:250,000: Queenstown****GEOGRAPHIC COORDS Min East: 375 000 mE Max East: 379 000 mE
Min North: 5 358 000mN Max North: 5 364 000mN****COMMODITY(s): Cu, Pb, Zn, Ag and Au****KEY WORDS: base-metals, conductivity, down-hole, electromagnetics, EM, mineralisation, three-
component, time-domain****Distribution:**

- o RGC Exploration Information Centre Reference:
- RGC Zeehan

SUMMARY

Three-component down-hole electromagnetic surveys using the CRONE time-domain EM system were conducted on two diamond drill-holes (WSP4, and WSP5), at the White Spur Project, EL 5/96, in July 1997. The surveys were conducted by Outer-Rim Exploration services for RGC Exploration as part of ongoing exploration for base-metal mineralisation at the project.

The aim of the surveys was to determine whether off-hole conductors (conceptually attributed to massive sulphide accumulations) were situated within the vicinity of these existing diamond drill-holes. If such conductors were present, then it is possible that down-hole three-component EM data could be used to accurately locate the massive sulphides, and thus facilitate the design of further exploratory drilling.

Hole depths logged for WSP4 and WSP5 are 400m and 385m respectively. Both holes were drilled in 1997 by RGC Exploration targeting a contact between predominantly siltstone and black siltstone horizons of the White Spur Formation, which stratigraphically overly felsic volcanics and volcanoclastics of the Central Volcanic Sequence. This contact is considered to be the same stratigraphic position in which the Rosebery and Hercules VHMS deposits formed, located less than 11km to the north of EL9/96.

Minor base-metals mineralisation was intersected in WSP5 (17m @ 0.6% Zn, 0.4% Pb and 4.5g/t Ag). Black siltstone horizons including disseminated pyrite in bedding and cleavage planes were intersected in both WSP4 and WSP5. It was anticipated that the black siltstones would form electrically conductive horizons, and thus provide an obstacle to the use of DHEM.

Each hole was logged with multiple transmitter loop positions to enable good electrical coupling with various transmitter loop / geology orientations.

WSP4 results show conductive responses centred at approximately 115m and 230m in all three components, for three transmitter loop positions. The different anomalous shapes for the three transmitter loop positions in the three components can be attributed to the different electromagnetic coupling geometries. Essentially, the anomalous response for all transmitter loops show early time in-hole conductors coincident with black siltstone horizons intersected in the hole. Later time responses (which generally correspond with better electrical conductors) are characteristic of off-hole conductive bodies, up dip, and to the north of the hole centred at 115m; and up dip to the north of the hole centred at 230m depth. These responses are most likely to be due to more conductive sections of the intersected black siltstone horizon, and therefore have not been modelled or recommended as drill targets.

WSP5 was logged with four transmitter positions. A broad wavelength off-hole conductor is evident in the axial component data for all but one loop position. The fact that the axial component gave the strongest response, and that neither the U or V components have a readily recognisable anomaly has not been adequately explained. A black siltstone intersected at 215m depth gives a strong off-hole response in all components. The response of the black siltstone intersected by WSP5 is distinguishable, but not easily separable from the broad wavelength anomalous response. Type curve analysis and computer modelling has been conducted on the EM data. Results were rather ambiguous, however did give some indication that a conductive centre was located to the north and down-dip of WSP5. Since this zone cannot be explained by a black siltstone, drill testing has been recommended.

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1. INTRODUCTION

White Spur (EL 5/96), situated approximately 10km south of the Rosebery Mine, Western Tasmania (Figure 1), is currently being explored by RGC Exploration for its potential to host Rosebery style Cu-Pb-Zn-Ag volcanic hosted massive sulphide (VHMS) deposits. This report presents the results of a three-component down-hole electromagnetic (DHEM) geophysical survey conducted as part of ongoing exploration activities.

The project encompasses a north-south trending EL that covers a geological contact between the White Spur Formation which stratigraphically overlies the Central Volcanic Sequence. This contact is the same stratigraphic position in which the Rosebery and Hercules VHMS deposits are situated. Previous exploration includes various surface and airborne geophysical techniques, in addition to several diamond drill-holes

DHEM surveys were conducted on two holes at the White Spur Project during July 1997 to determine whether off-hole conductors existed that might be targeted in further drilling. It is a feasible model, that off-hole EM conductors might be associated with base-metal rich massive sulphide mineralisation, and it is for this reason that use of DHEM often forms a routine component of VHMS exploration.

2. GEOLOGY

This summary of the geological setting at Basin Lake is derived from drill logs of WSP4 and WSP5 (extracted from the RGC database), and a report by Vicary (1997).

The project area comprises a north-south striking package of lithologies of the Lower White Spur Formation, and the Upper Central Volcanic Sequence (CVS). The contact runs through the centre of the tenement area, and generally dips to the west. The White Spur Formation typically comprises a sequence of interbedded massflows and black siltstones. Clasts of massive sulphide have been identified within the lower massflows of the White Spur Formation, and are interpreted to be eroded fragments of local sulphide accumulations carried down-slope by massflows. The CVS typically comprises felsic volcanic lavas, and volcanoclastic sediments. Several intrusive brecciated rhyolite bodies and thin (<5m) mafic dykes/sills have been mapped within the CVS. A summary diagram of the local geology is presented in Figure 2.

Several alteration zones have been identified at White Spur. Alteration types encountered have been consistent with those commonly encountered proximal to VHMS mineralisation. These include sericite-silica-pyrite, and a regional chlorite-albite? alteration. In addition, pyrrhotite rich black siltstones are observed at White Spur. Pyrrhotite tends to occur within bedding planes, cleavage planes, and as fine quartz-rich veinlets. The significance of the pyrrhotite (if any) as an alteration mineral is not currently understood, however, it is an important sulphide to identify when conducting electrical geophysics due to its highly conductive nature.

Diamond drill-hole WSP4 intersected interbedded volcanoclastics, massflow breccias, and siltstones overlying feldspar phric pumice breccia of the CVS. No significant mineralisation or alteration was identified. WSP5 was collared within an intrusive rhyolite, then intersected White Spur Formation (predominantly interbedded siltstone, sandstone and massflows) to 295m where it intersected altered (silica-sericite) CVS. Disseminated and microveins of sphalerite and galena were common from 292m to 309m depth. This hole had been drilled to test the

White Spur-CVS contact to the south of a possible growth fault identified through field mapping.

The main structural elements at White Spur include the NE-SW trending North Henty Fault in the south of the tenement, which conceptually may have acted as a fluid conduit during mineralisation. In addition, a number of E-W oriented faults that displace the White Spur-CVS contact by distances in the order of 500m have been delineated by either field mapping or in geophysical data. These faults may form growth faults that similarly could conceptually control mineralisation by acting as fluid conduits.

3. PREVIOUS GEOPHYSICS

Previous exploration programs at White Spur extends back to the 1960's when EM and gravity techniques were applied. Since then, IP, UTEM, down-hole SIROTEM, magnetics, helimagnetics, helicopter EM (DIGHEM) and VLF-EM have all been trialed to some extent. Numerous anomalies have been detected by the various techniques, and follow-up drilling has currently failed to intersect significant economic mineralisation in all cases. Some holes have intersected minor base metals and/or pyrite-sericite alteration, but generally, anomalous electrical response has been attributed to pyritic black siltstones. A comprehensive analysis of all the previous geophysical data, and integration with the existing geological database has not been conducted, but is currently under progress by RGC.

4. THEORETICAL CONSIDERATIONS

Following is a brief summary on the theoretical factors that must be considered with regard to DHEM survey techniques.

A time domain electromagnetic system was used for the survey in a fixed transmitter and roving receiver configuration. The nature of the response can be rather complex, and is dependent on a number of factors. These can be both geological and system configuration in origin. Firstly, the position of the transmitter loop with respect to the drill-hole and the geological target is critical, and different loop positions will generate different responses. The causes, and signature of different responses from different loop-hole-geology orientations are too numerous and complex for even brief summary in this report. Different responses are expected from different transmitter loop positions, and anomalous response may simply be due to loop-hole position rather than geology. Interrogation of data using modelling software, case examples, and simple electromagnetic theory is a requirement for interpretation to avoid identification of false anomalies.

It should be kept in mind, that for a geological target to provide an electromagnetic response, it must have a connection of conductive minerals. Therefore, disseminated sulphides are not expected to provide a good EM response. Also, the sulphides must be highly conductive. In areas where zinc mineralisation is being sought it must be understood that sphalerite is not a particularly good conductor. In fact, sphalerite may act as an insulator about other conductive minerals (chalcopyrite, galena, and pyrite), and make a massive sulphide body a poor conductor.

The survey was conducted using the CRONE three-component receiver. Sign conventions are that the Z component is the axial component (A), positive polarity up-hole; the X component is in the plane of the hole azimuth axis at 90° from the hole dip (V), positive polarity upwards; and the Y component is at 90° perpendicular to the hole azimuth, positive polarity to the left

hand side of the down-dip facing hole azimuth. The XYZ components should refer to geographical co-ordinates based on the local grid where Z is up, X is east-west, and Y is north-south (ie AMG in this case).

5. SURVEY PARAMETERS

The diamond hole WSP4 was drilled in 1997 and is collared at 376476mE, 5361675mN and approximately 577mRL. The hole was drilled to a depth of 400.3m at a dip and azimuth of approximately 55° and 095° respectively.

The diamond hole WSP5 was drilled in 1997 and is collared at 376894mE, 5360891mN and 560mRL. The hole was drilled to a depth of 385.5m at a dip and azimuth of approximately 67° and 095° respectively.

The three component DHEM survey was conducted using the CRONE system, by OUTER-RIM Exploration Services in July 1997. Data were collected on a 20 msec time-base over 20 channels at 10 m and 5 m station interval. Ramp-time was set at 0.5 msec, and receiver-transmitter synchronisation achieved through cable connection. Primary fields were measured during the turn-off ramp. Channel times are presented in the table below (time in usec after ramp turn-off):

Ch	Start	End	Centre	Ch	Start	End	Centre	Ch	Start	End	Centre
pp	-198	-99	-149	7	270	360	315	14	1993	2646	2320
1	50	63	56	8	360	482	421	15	2646	3514	3080
2	63	86	74	9	482	639	560	16	3514	4666	4090
3	86	112	99	10	639	850	745	17	4666	6192	5429
4	112	153	133	11	850	1129	990	18	6192	8221	7206
5	153	203	178	12	1129	1498	1314	19	8221	10910	9566
6	203	270	236	13	1498	1993	1746	20	10910	14490	12700

Loop positions and dimensions are displayed in Figure 2. Multiple transmitter loops were used for each of the two holes, with currents of 28A WSP4 Loop 2; 18A WSP4 Loop 3; 26A WSP4 Loop 4; 20A WSP5 Loop 1; 29A WSP5 Loop 2; 18A WSP5 Loop 5; and 9.5A WSP5 Loop 6. All three-components (A, U, and V) were recorded for each loop position. The time rate of change of the secondary magnetic field is measured in the receiver coil (amplified area 6500 m²) in units of nT/sec. Effective receiver coil area (amplified) is 6500m², receiver number 109.

6. RESULTS/DISCUSSION

Results from all holes and transmitter loops have been plotted as profiles in Figures 3-21. Results are plotted on both linear, and logarithmic vertical axis. Survey details and hole details (including loop location with respect to the drill-hole) are presented on the plots. Digital data are provided in the sleeve of this report to facilitate further plotting and/or modelling of results as required. Data have been modelled using EMVISION and FILAMENT software packages. It **must** be pointed out that the sign convention applied in the FILAMENT package is **not** the same as that observed in the field data (it is the opinion of the author that this is a software bug, as a result of industry confusion, that should be rectified). Therefore, in the modelling results, the V and U components have actually been interchanged. That is, the U component in the plotted profiles is actually the V component in the modelled profiles (and visa versa).

6.1 WSP5

WSP5 was logged with four transmitter loop positions, Loop 1, Loop 2, Loop 5 and Loop 6 (Figure 2 for locations). Loop 1 and Loop 2 were originally designed to routinely test WSP5 for off-hole conductors. Following identification of a response from Loop 1 and 2 in WSP5, Loop 5 and Loop 6 were used to try and enable better definition of the location of the off-hole conductor. Results from WSP5 are presented in Figures 3 to 14.

Loop 1 results (Figure 3-6) show anomalous response centred at 220m which could be attributed to a pyritic black siltstone centred at approximately this depth. The A component is a narrow wavelength (60m) negative anomaly indicating an off-hole conductive centre. V component data exhibit a well defined positive to negative late-time cross-over centred at 220m. U component data do show some poor evidence of a positive to negative cross-over centred at 220m. This is indicative of a conductive body located off-hole, down-dip, and slightly off-set to the south of the drill-hole. Since this body is most likely within the black siltstone horizon it does not constitute a target and has not been further investigated.

In addition to the black siltstone response centred at 220m, a broad wavelength anomaly was detected extending from 160m to the bottom of the hole (the anomaly was not closed off). The anomaly is a broad negative in the A component from channel 6-9 (0.3-0.6msec) indicating a moderate conductor located some distance (>100m) off-hole. Neither the V or the U component data give a response that enables better definition of this off-hole conductor. The V and U responses are complicated by the anomalous response of the black siltstone higher in the hole. Some evidence exists for late-time positive values in the V component, and quite possibly a negative trend in the bottom of hole U component data (this is very speculative). This would indicate a conductor located off-hole, down-dip, and to the north of the drill-hole. From the wavelength of the A component anomaly the conductor may be as far as 100-200m off-hole. The fact that the anomaly is too broad wavelength to be covered by the length of the drill-hole, and the poor V and U responses make confident interpretation of the location of the conductive source very difficult.

In order to try and better define the location and geometry of the source of the off-hole response, a WSP5 was re-logged with number of further transmitter loops (2, 5, and 6).

Loop 2 is positioned to the northwest of WSP5. It was hoped that this loop would result in minimal coupling with a north-south striking conductor located to the south of WSP5 (ie the black siltstone), and maximum coupling with a conductor located to the north (ie the target conductor). Results (Figure 6-8) show a much more subtle response centred at 220m at the black siltstone. This supports the previous interpretation of a southern conductive centre. The broad wavelength off-hole response is repeated in the A component, and again the V and U components do not exhibit a readily identifiable anomalous response.

Loop 5 is a small transmitter loop situated to the south of WSP5. The aim of this loop position was to see if the off-hole conductor was located to the south of WSP5 rather than to the north as suggested (with very little confidence) by Loop 1 and 2. WSP5 was initially logged with the axial component probe which did not result in anomalous response. As a consequence it was decided not to proceed with the U and V component DHEM probe. It could be concluded from this loop position that the conductor is not located at shallow depths to the south of WSP5. The loop was most likely not large enough to test deeper than in the order of 200m (ie the primary magnetic field was too weak in amplitude).

Loop 6 is the result of joining loops 1 and 2. This large transmitter loop (800x475m) was intended to couple well with all westerly dipping north-south striking conductors in the vicinity of WSP5. The same off-hole A component response was observed, and again neither the U or V components give an identifiable response.

From the A component it was concluded, that an off-hole conductor did exist some distance off-hole of WSP5 (>100m). From the U and V components it was considered *quite likely* that the source was located down-dip, and to the north of the hole.

Computer modelling using FILAMENT software was conducted to try and better identify the conductive source. Data were imported into EMVISION software, then exported to FILAMENT to allow forward and inverse modelling of discrete current filaments. Results from FILAMENT modelling were just as difficult to interpret as the raw profile plots. Lack of correlation between modelled A, and U and V components meant that a current centre causative of the DHEM anomaly was unable to be determined. It can only be concluded that the centre is located some distance off-hole (>200m as the modelling would suggest). Modelling results from all transmitter loop locations similarly did not greatly assist in interpretation. In fact, the greater time spent on modelling, the more feasible geological scenarios were modelled with acceptable error limits. It could not even be discounted that a black siltstone horizon paralleling the western side of the transmitter loops 1, 2, and 6 was not the cause of the anomaly. The main reason for the difficulties encountered with modelling the anomalous response is the number, and conductive variability of black siltstone horizons.

DHEM conducted on nearby targeted drill-holes should assist with determining the location of the off-hole conductor.

6.2 WSP4

WSP4 was logged with three transmitter loop positions, Loop 2, Loop 3, and Loop 4 (Figure 2 for locations). Loop 3 and Loop 4 were positioned to inductively couple best with conductors down-dip and up-dip of the White Spur-CVC contact respectively. Loop 2 (which was originally used to log WSP5) was used for WSP4 to determine whether an off-hole conductor detected in WSP5 with this transmitter was also able to be detected in WSP4. It can be concluded from the results that the off-hole conductor detected in WSP5 is not observed in WSP4.

WSP4 results show conductive responses centred at approximately 115m and 230m in all three components, for three transmitter loop positions. The different anomalous shapes for the three transmitter loop positions in the three components can be attributed to the different electromagnetic coupling geometries. Essentially, the anomalous response for all transmitter loops show early time in-hole conductors coincident with black siltstone horizons intersected in the hole. Later time responses (which generally correspond with better electrical conductors) are characteristic of off-hole conductive bodies, up dip, and to the north of the hole centred at 115m; and up dip to the north of the hole centred at 230m depth. These responses are most likely to be due to more conductive sections of the intersected black siltstone horizon, and therefore have not been modelled or recommended as drill targets.

No significant anomalies attributable to geological sources are considered worthy of follow-up from the WSP4 DHEM results.

6. RECOMMENDATIONS

The following recommendations are made from the results of the three-component down-hole electromagnetic survey:

- No targets were generated in the vicinity of WSP4.
- An off-hole conductor was detected in the DHEM results from WSP5. The conductor was modelled, and is likely to be located to the north and down-dip of the drill-hole, approximately 150-250m off-hole. Drill testing of this zone has been recommended since it has not been adequately explained by the known geology.
- Further DHEM should be conducted on targeted drill-holes.

7. REFERENCES

Vicary, M. J., 1997, EL 5/96 "White Spur" Annual Report March 1996-March 1997; RGC Exploration Annual Report to Tasmanian Mines Department RGC Code 2317-9702.

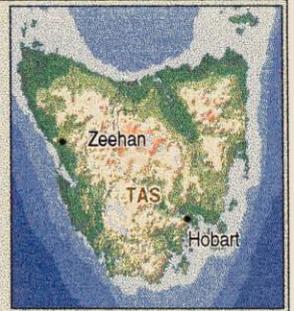
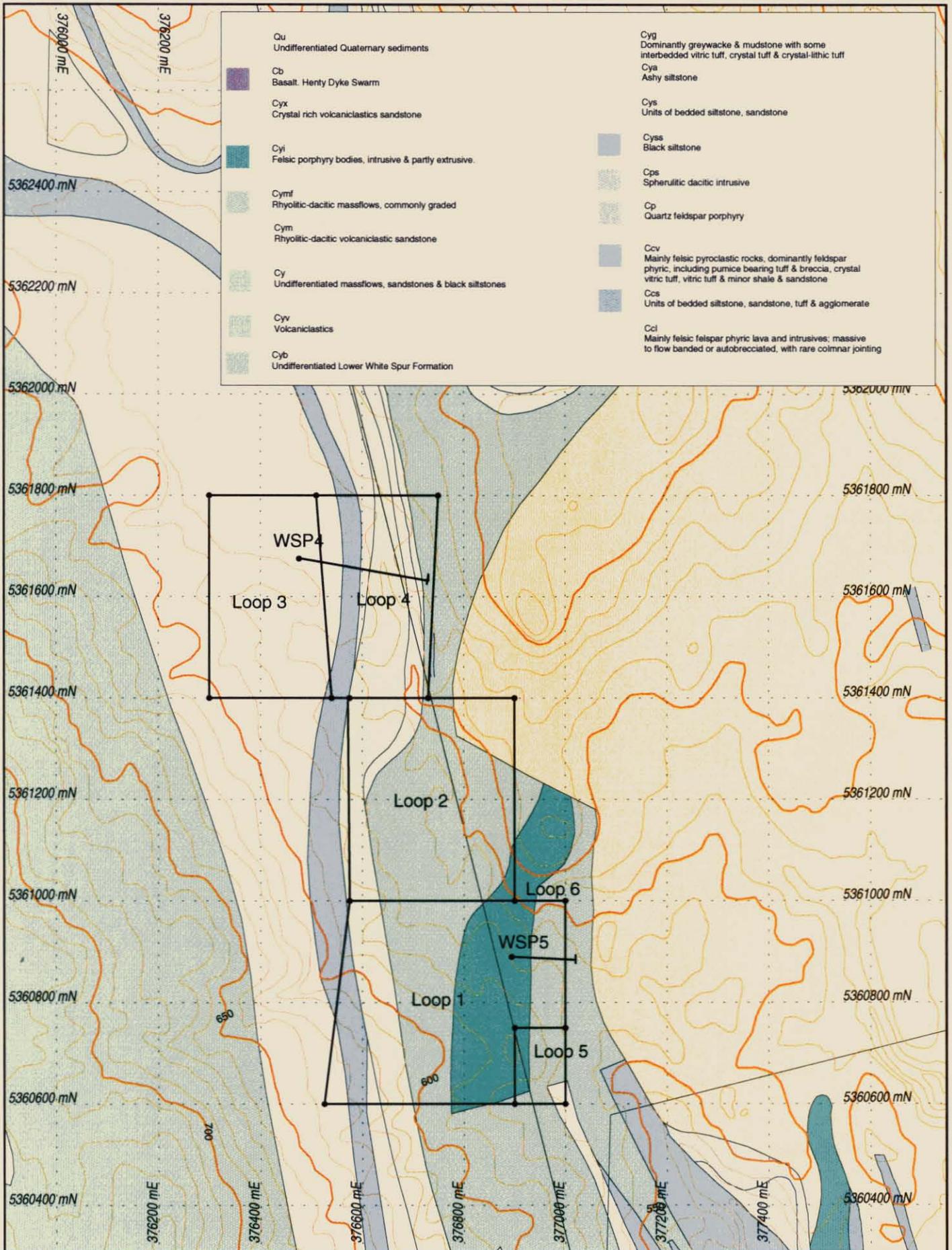
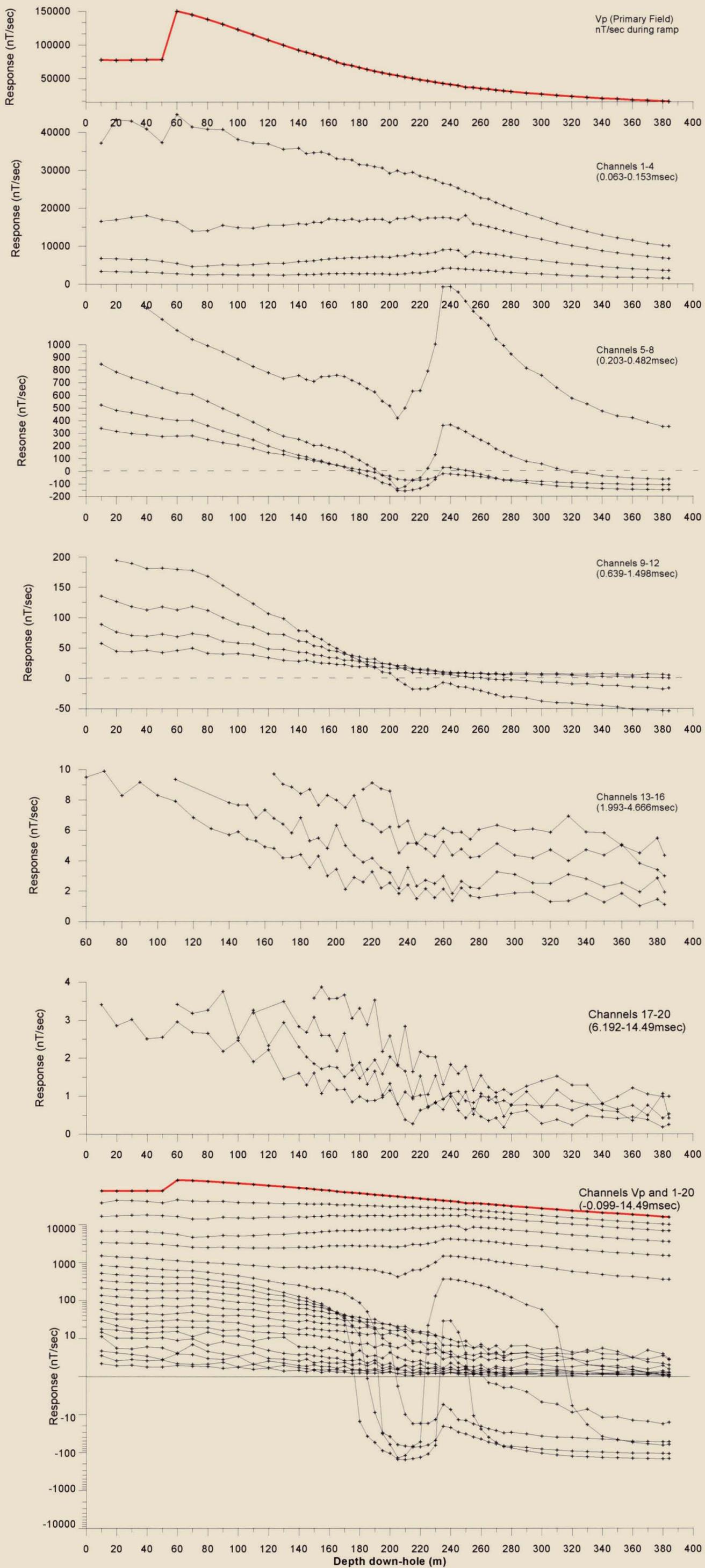


Figure 1. White Spur Project Location Plan







RGC Exploration

White Spur Project
Down-Hole EM Results
Axial Component
WSP5

Hole Specifications

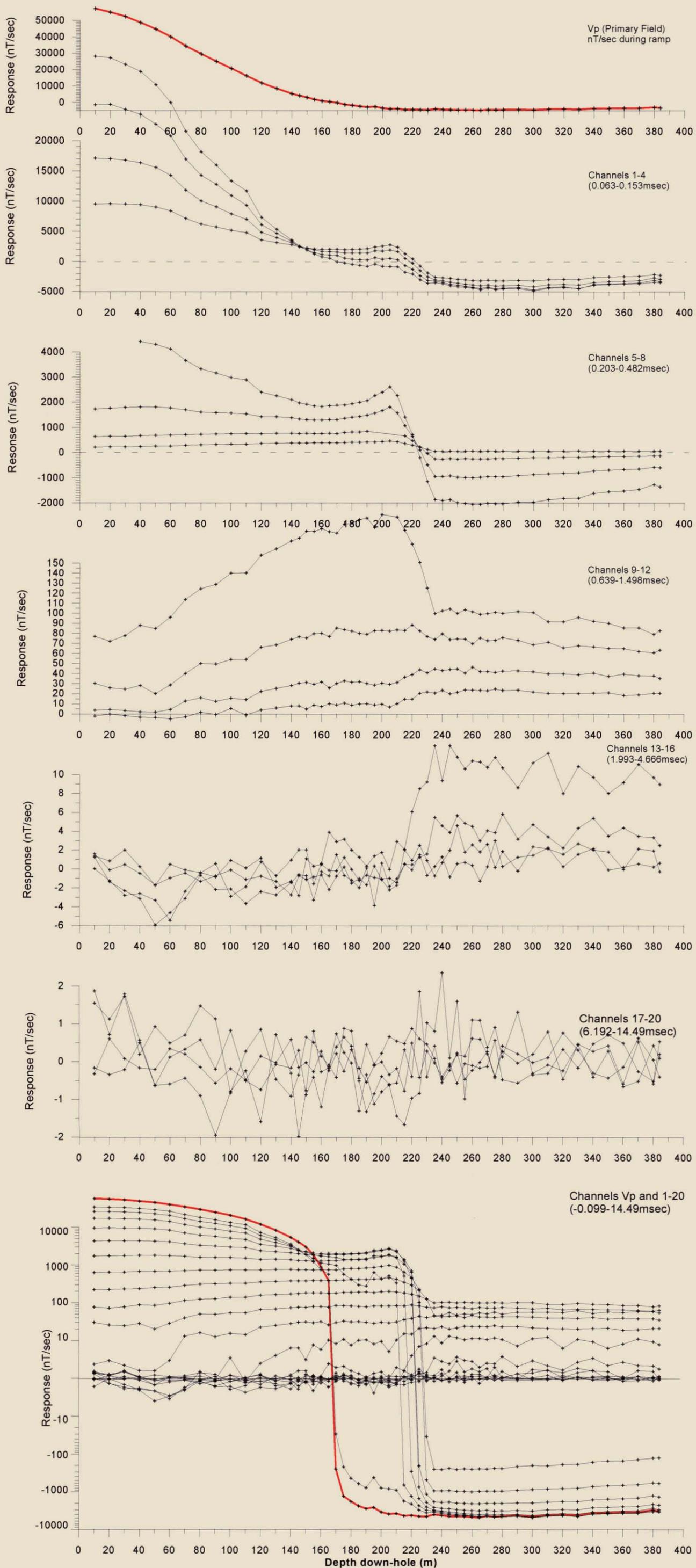
Hole Number: WSP5
Completed: June 1997
Collar Easting: 376894mE
Collar Northing: 5359451mN
RL: 560m
Inclination: 68 degrees
Azimuth: 090 degrees AMG
EOH: 384m

DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x400m
Current: 20A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec



Figure 3



RGC Exploration

White Spur Project
Down-Hole EM Results
V Component
WSP5

Hole Specifications

Hole Number: WSP5
Completed: June 1997
Collar Easting: 376894mE
Collar Northing: 5359451mN
RL: 560m
Inclination: 68 degrees
Azimuth: 090 degrees AMG
EOH: 384m

DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x400m
Current: 20A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec

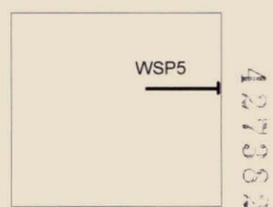
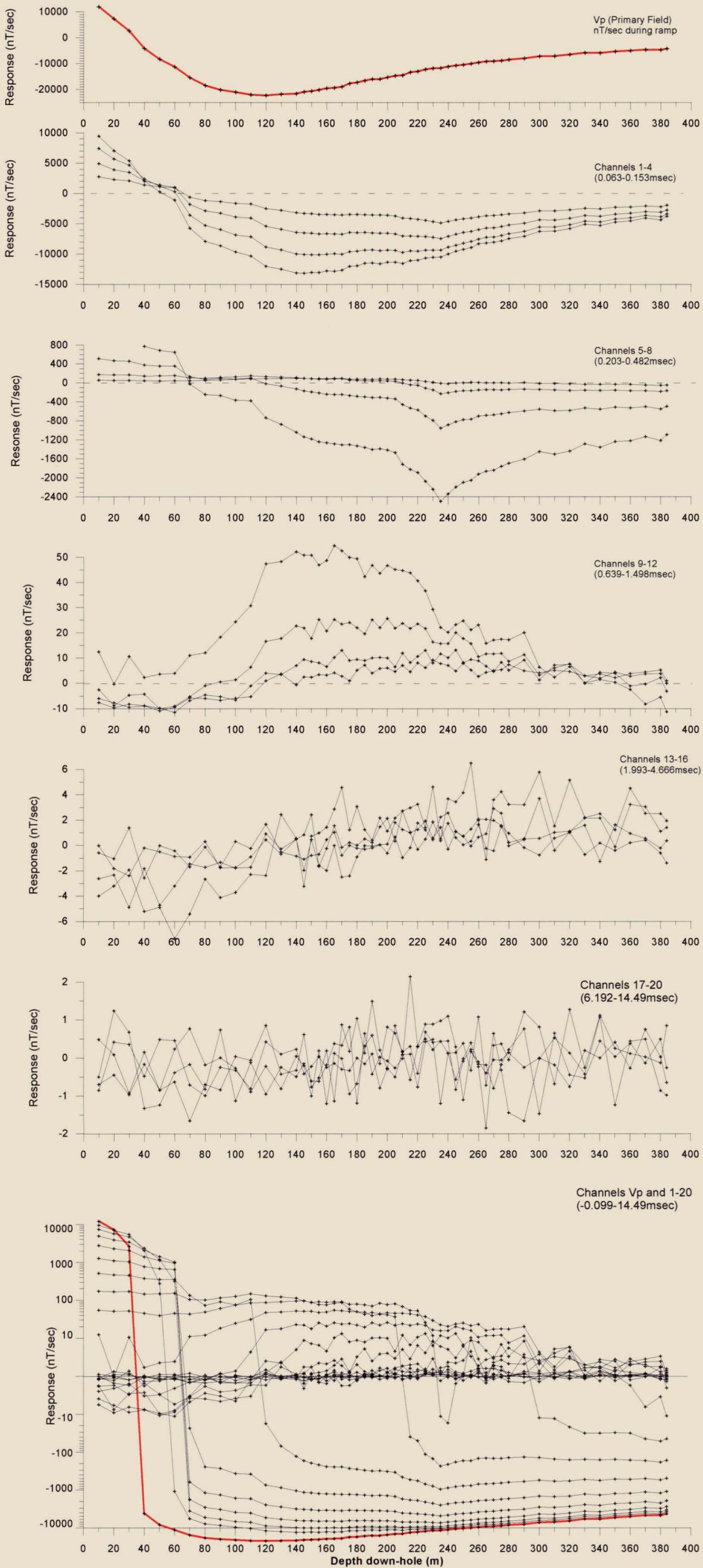


Figure 4



RGC Exploration

White Spur Project
Down-Hole EM Results
U Component
WSP5

Hole Specifications

Hole Number: WSP5
Completed: June 1997
Collar Easting: 376894mE
Collar Northing: 5359451mN
RL: 560m
Inclination: 68 degrees
Azimuth: 090 degrees AMG
EOH: 384m

DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x400m
Current: 20A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec

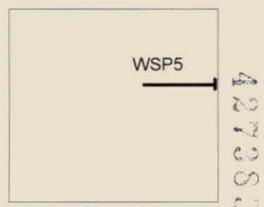
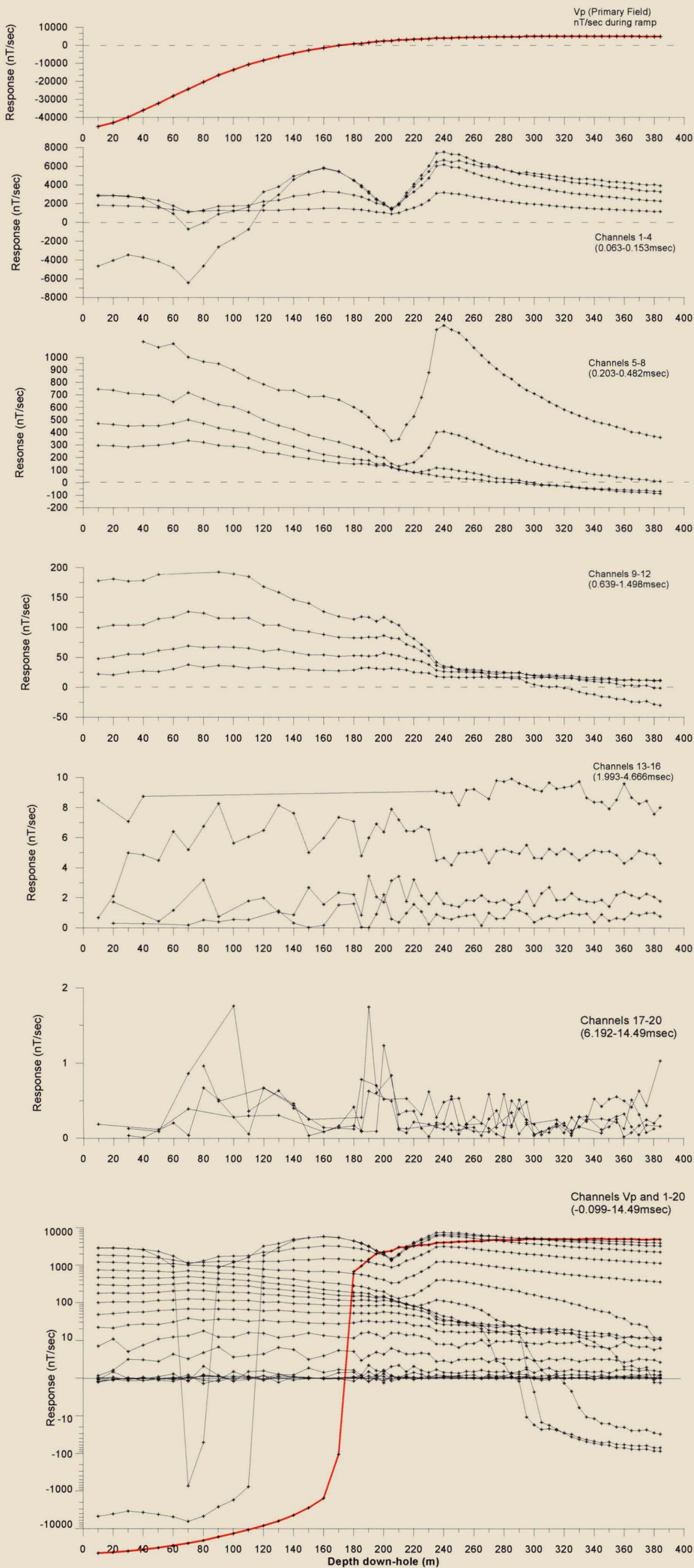


Figure 5



RGC Exploration

White Spur Project
Down-Hole EM Results
Axial Component
WSP5
Transmitter Loop 2

Hole Specifications

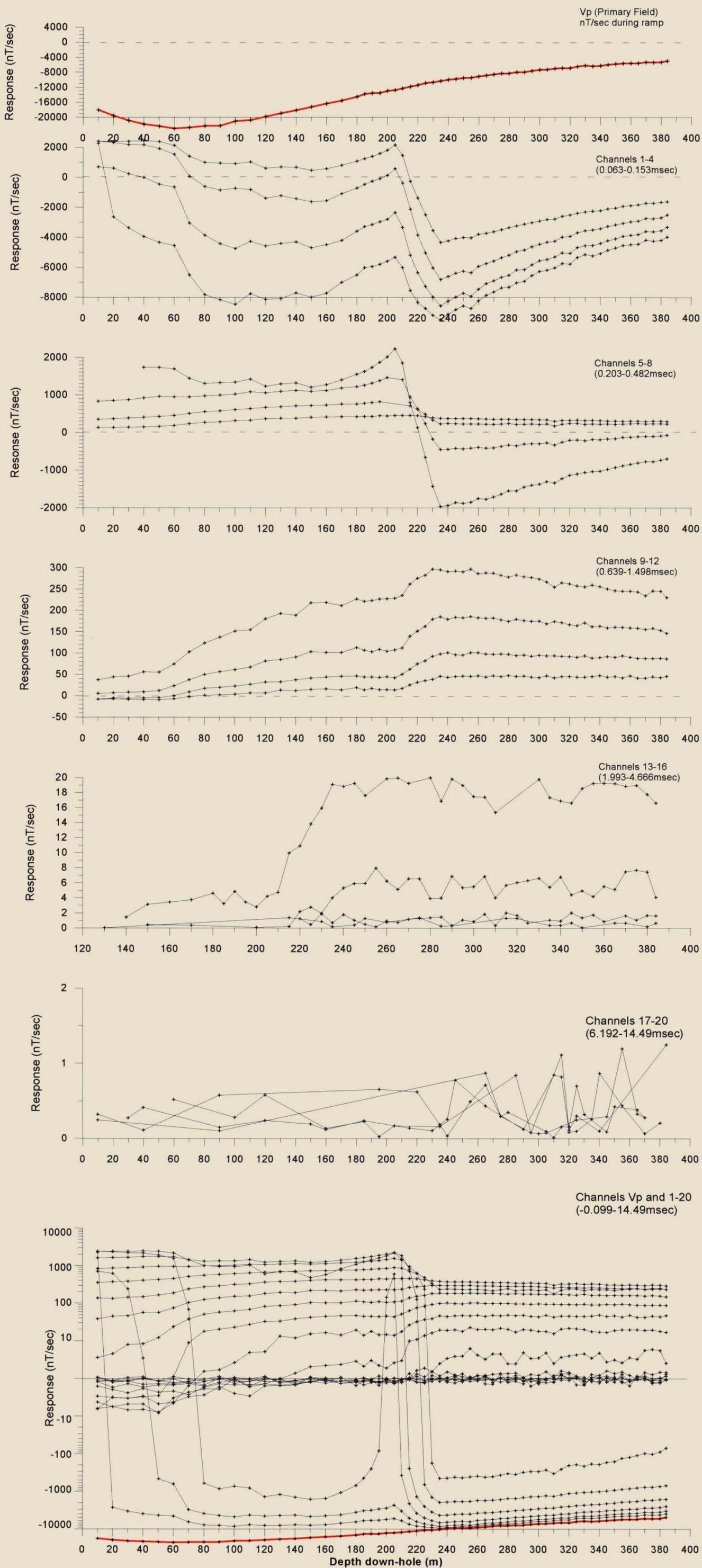
Hole Number: WSP5
Completed: June 1997
Collar Easting: 376894mE
Collar Northing: 5360891mN
RL: 560m
Inclination: 68 degrees
Azimuth: 090 degrees AMG
EOH: 385.5m

DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x300m
Current: 29A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec



Figure 6



RGC Exploration

White Spur Project
Down-Hole EM Results
V Component
WSP5
Transmitter Loop 2

Hole Specifications

Hole Number: WSP5
Completed: June 1997
Collar Easting: 376894mE
Collar Northing: 5360891mN
RL: 560m
Inclination: 68 degrees
Azimuth: 090 degrees AMG
EOH: 385.5m

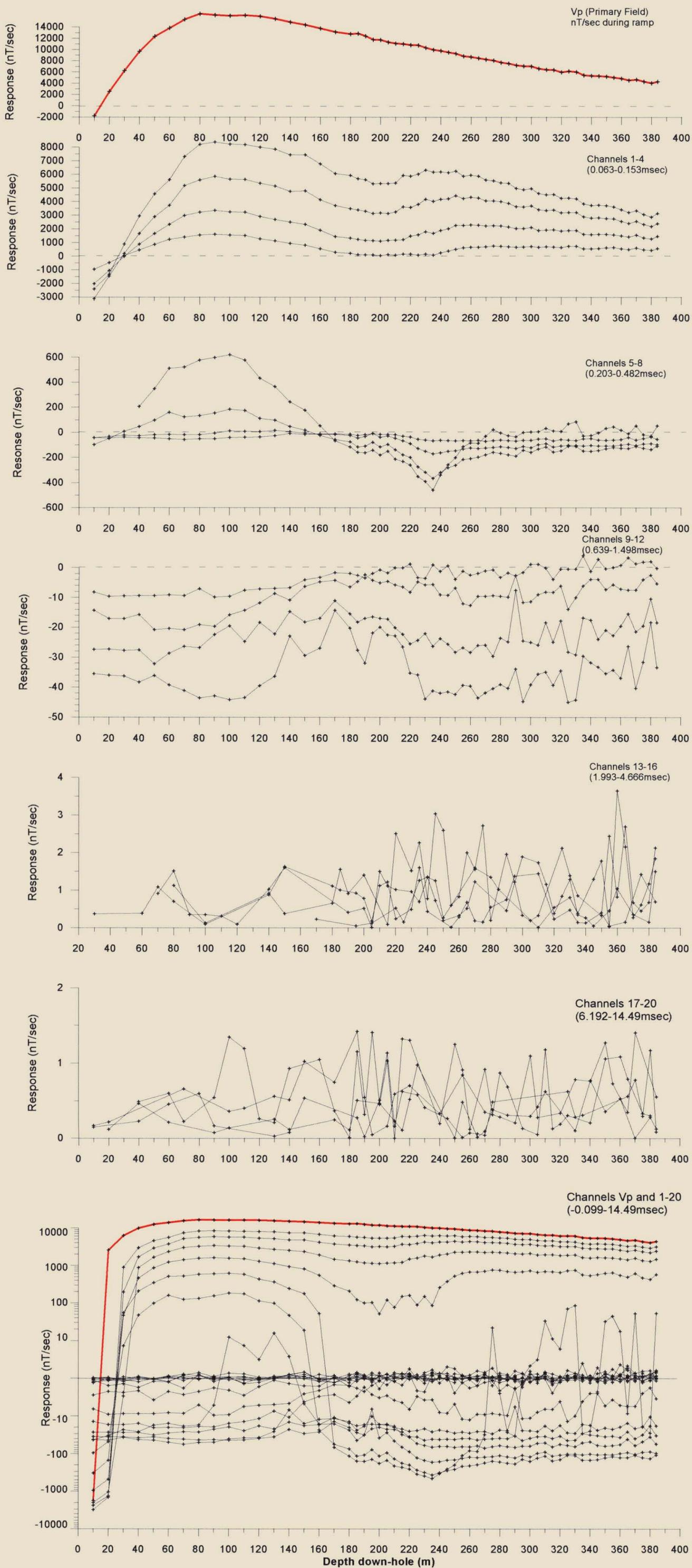
DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x300m
Current: 29A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec



427059

Figure 7



RGC Exploration

White Spur Project
Down-Hole EM Results
U Component
WSP5
Transmitter Loop 2

Hole Specifications

Hole Number: WSP5
Completed: June 1997
Collar Easting: 376894mE
Collar Northing: 5360891mN
RL: 560m
Inclination: 68 degrees
Azimuth: 090 degrees AMG
EOH: 385.5m

DHEM Specifications

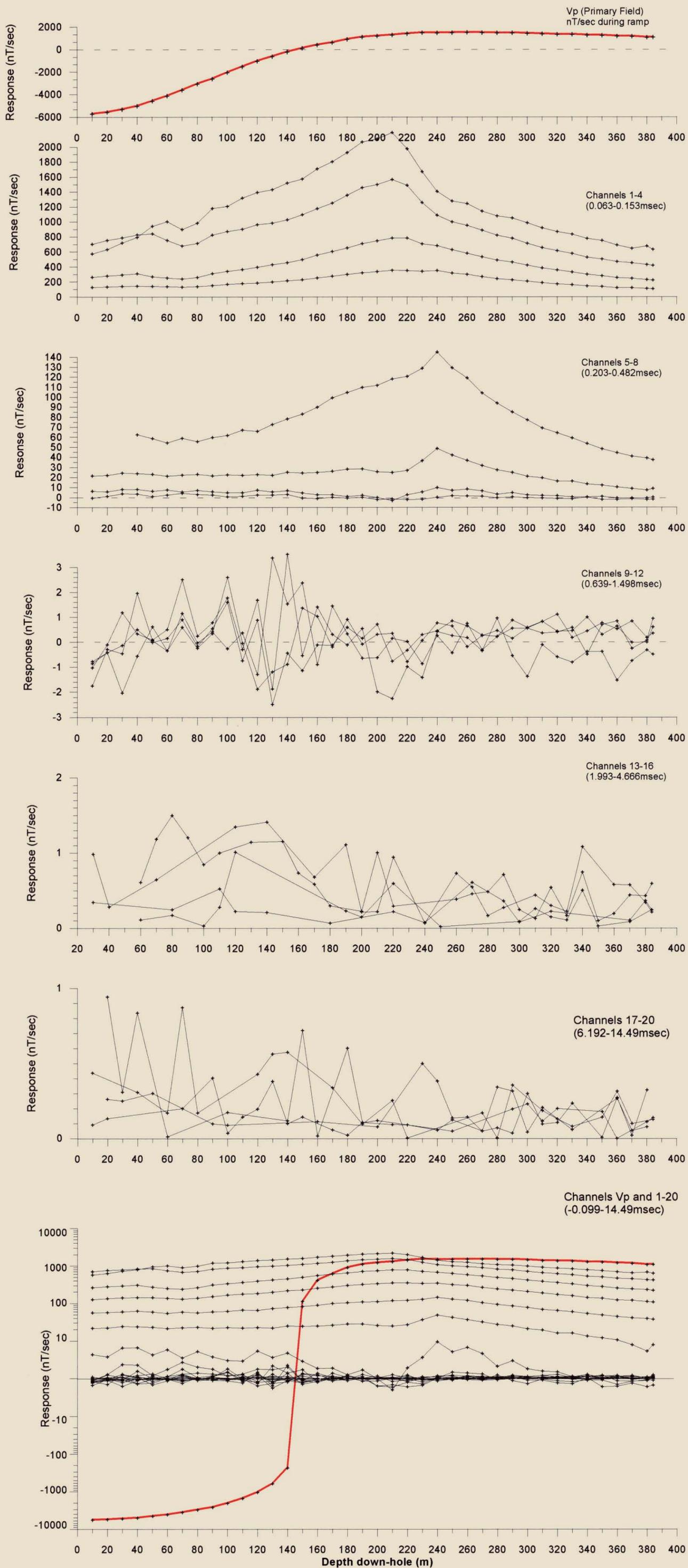
Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x300m
Current: 29A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec



WSP5

427386

Figure 8



RGC Exploration

White Spur Project
Down-Hole EM Results
Axial Component
WSP5
Transmitter Loop 5

Hole Specifications

Hole Number: WSP5
Completed: June 1997
Collar Easting: 376894mE
Collar Northing: 5360891mN
RL: 560m
Inclination: 68 degrees
Azimuth: 090 degrees AMG
EOH: 385.5m

DHEM Specifications

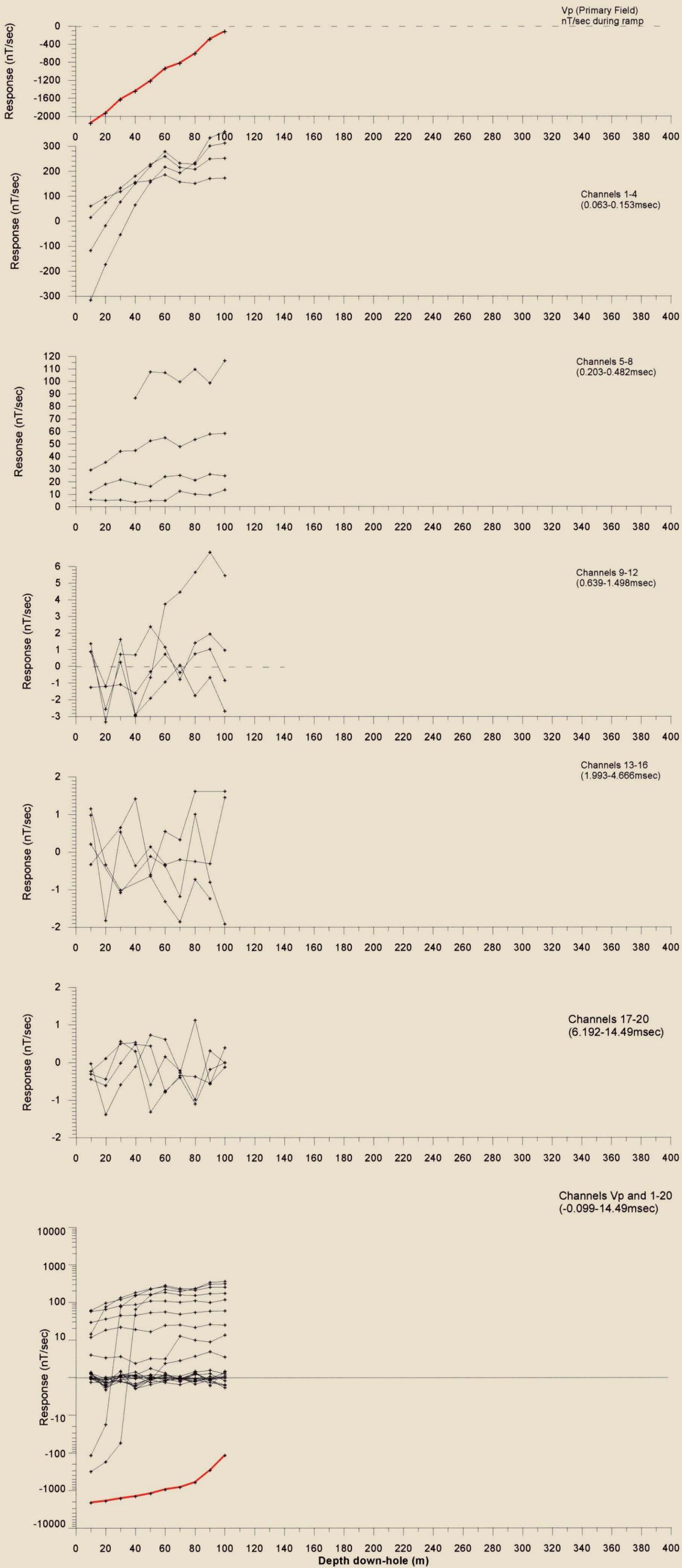
Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 100x150m
Current: 18A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec

WSP5



427387

Figure 9



RGC Exploration

White Spur Project
Down-Hole EM Results
V Component
WSP5
Transmitter Loop 5

Hole Specifications

Hole Number: WSP5
Completed: June 1997
Collar Easting: 376894mE
Collar Northing: 5360891mN
RL: 560m
Inclination: 68 degrees
Azimuth: 090 degrees AMG
EOH: 385.5m

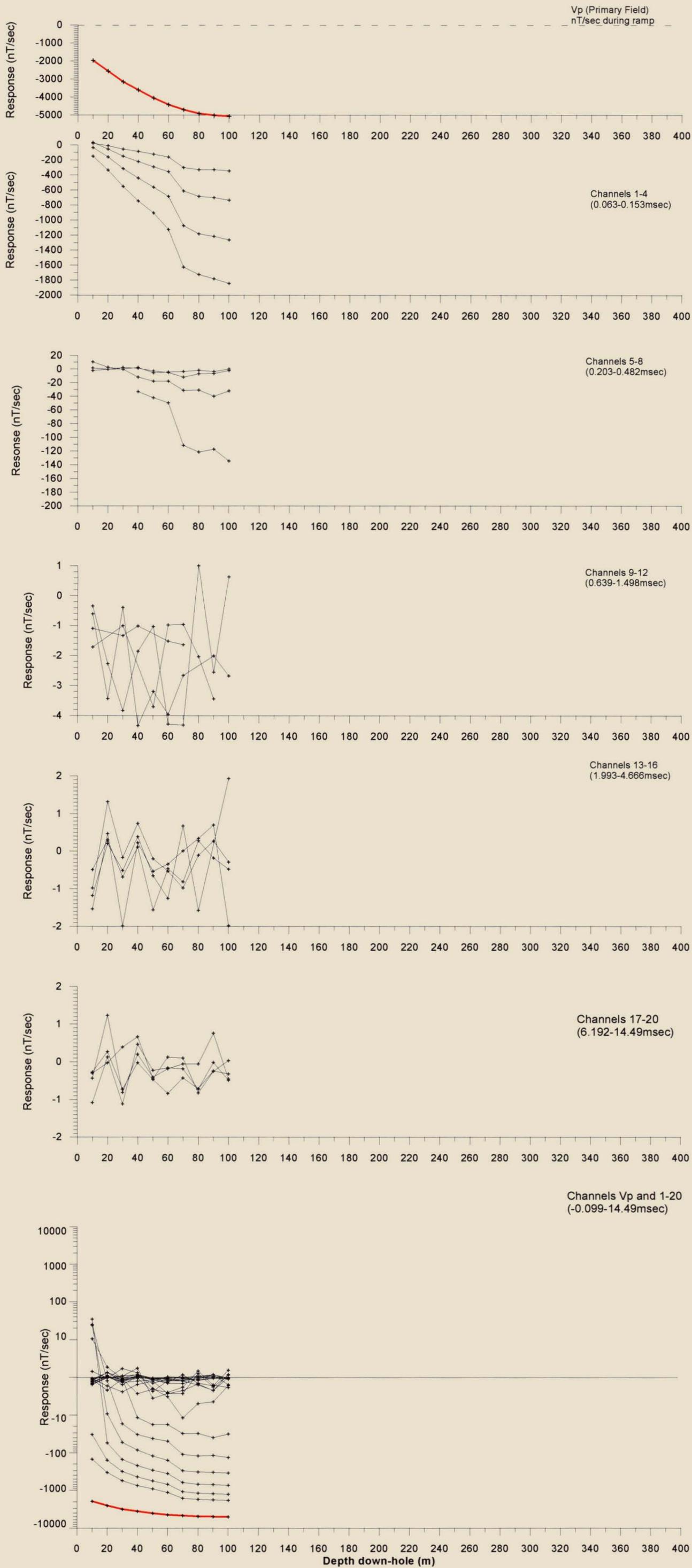
DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 100x150m
Current: 18A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec



427388

Figure 10



RGC Exploration

White Spur Project
Down-Hole EM Results
U Component
WSP5
Transmitter Loop 5

Hole Specifications

Hole Number: WSP5
Completed: June 1997
Collar Easting: 376894mE
Collar Northing: 5360891mN
RL: 560m
Inclination: 68 degrees
Azimuth: 090 degrees AMG
EOH: 385.5m

DHEM Specifications

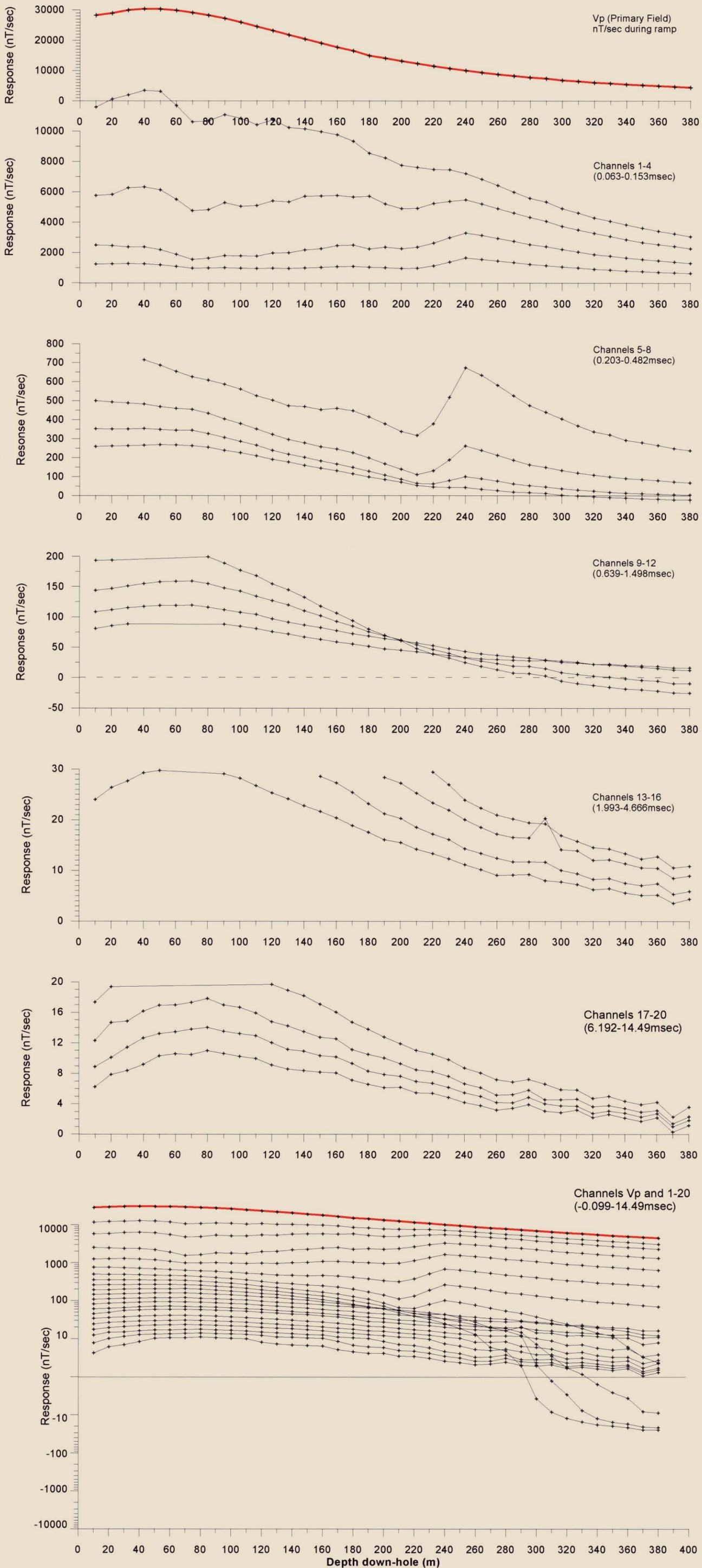
Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 100x150m
Current: 18A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec

WSP5



427389

Figure 11



RGC Exploration

White Spur Project
Down-Hole EM Results
Axial Component
WSP5
Transmitter Loop 6

Hole Specifications

Hole Number: WSP5
Completed: June 1997
Collar Easting: 376894mE
Collar Northing: 5360891mN
RL: 560m
Inclination: 68 degrees
Azimuth: 090 degrees AMG
EOH: 385.5m

DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 800x475m
Current: 9.5A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec

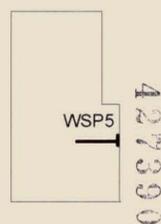
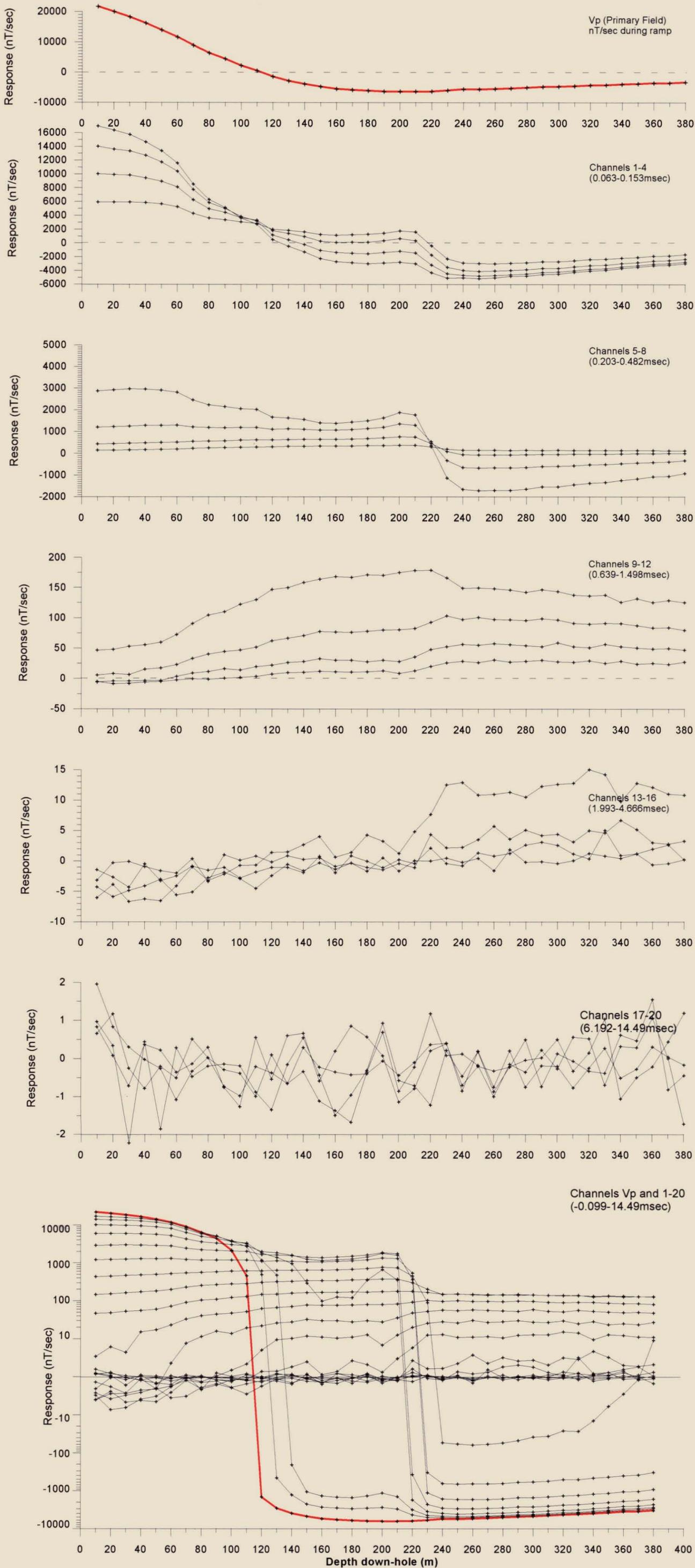


Figure 12



RGC Exploration

White Spur Project
Down-Hole EM Results
V Component
WSP5
Transmitter Loop 6

Hole Specifications

Hole Number: WSP5
Completed: June 1997
Collar Easting: 376894mE
Collar Northing: 5360891mN
RL: 560m
Inclination: 68 degrees
Azimuth: 090 degrees AMG
EOH: 385.5m

DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 800x475m
Current: 9.5A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec

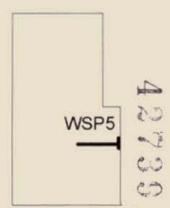
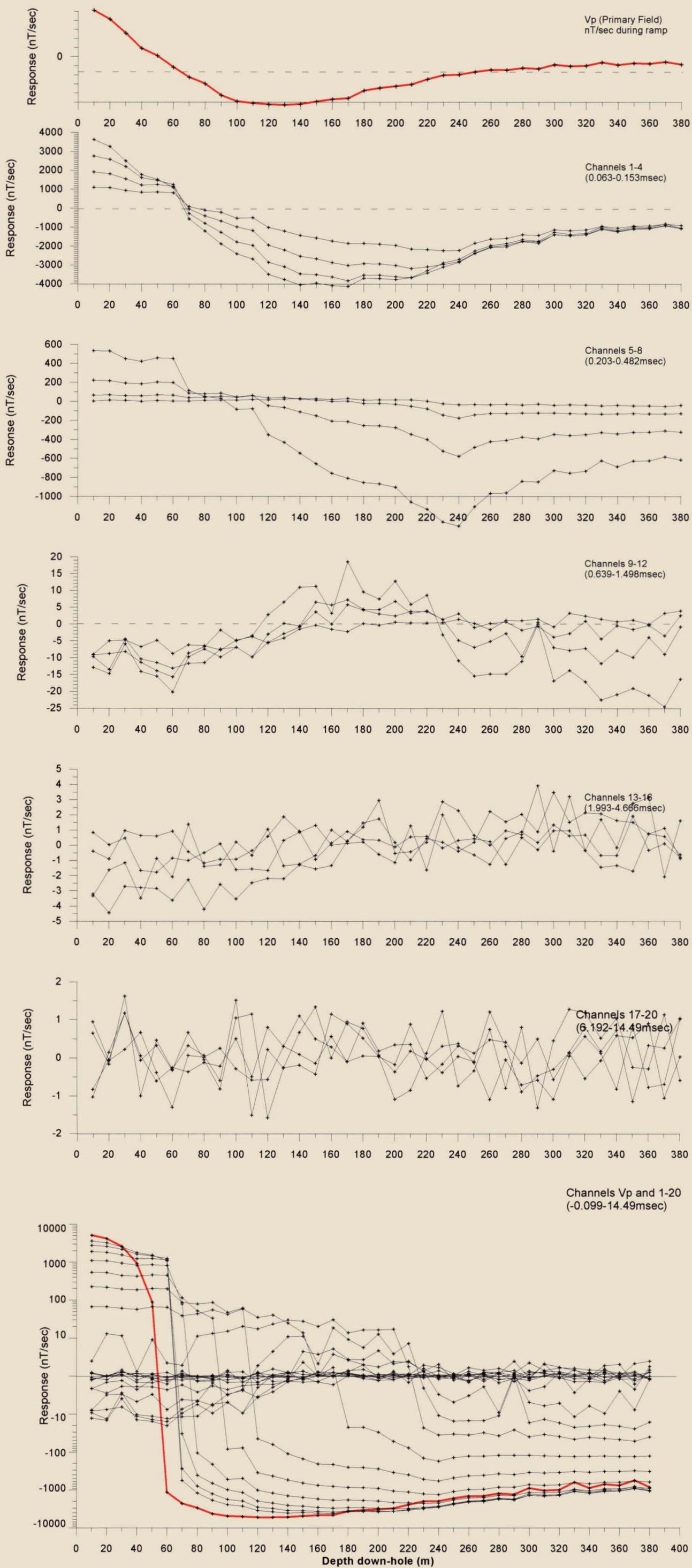


Figure 13



RGC Exploration

White Spur Project
Down-Hole EM Results
U Component
WSP5
Transmitter Loop 6

Hole Specifications

Hole Number: WSP5
Completed: June 1997
Collar Easting: 376894mE
Collar Northing: 5360891mN
RL: 560m
Inclination: 68 degrees
Azimuth: 090 degrees AMG
EOH: 385.5m

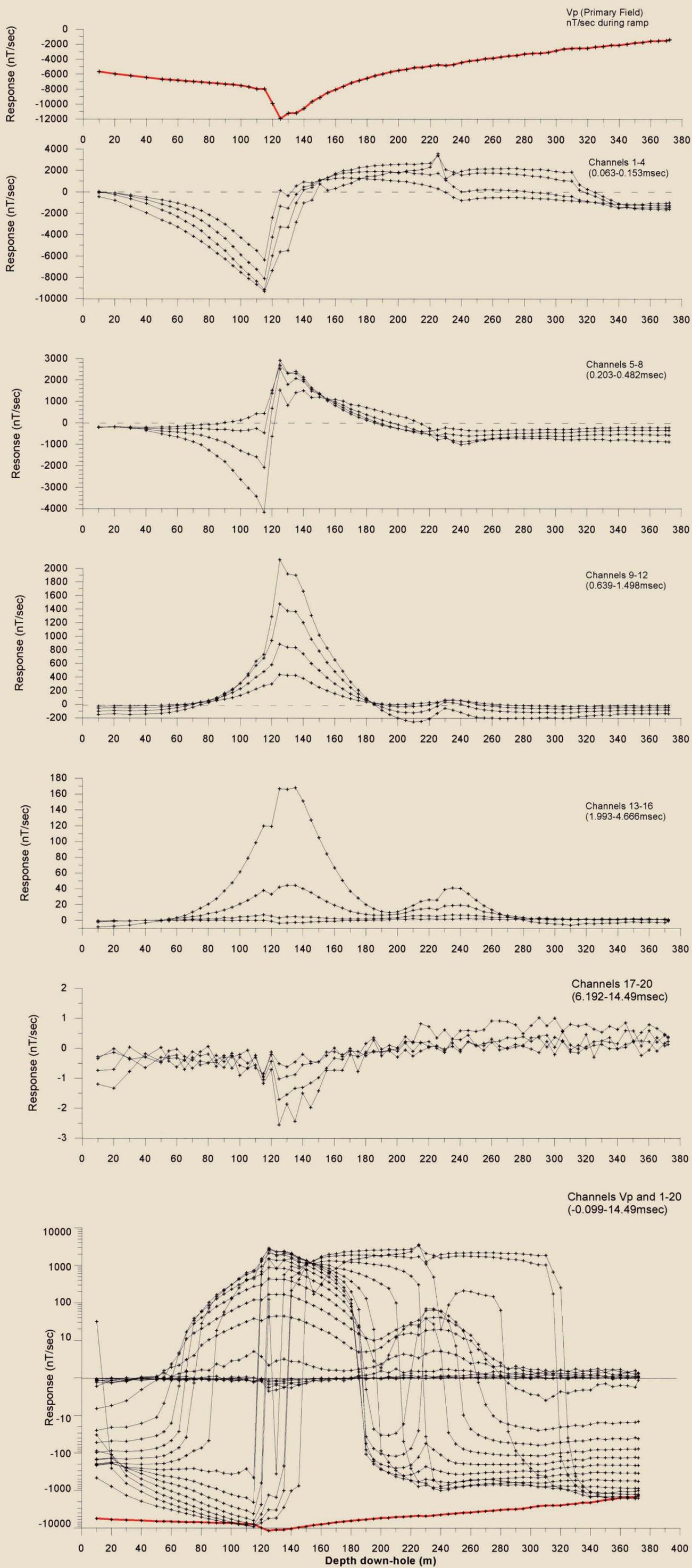
DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 800x475m
Current: 9.5A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec



427392

Figure 14



RGC Exploration

White Spur Project
Down-Hole EM Results
Axial Component
WSP4
Transmitter Loop 2

Hole Specifications

Hole Number: WSP4
Completed: April 1997
Collar Easting: 376476mE
Collar Northing: 5361675mN
RL: 577m
Inclination: 60 degrees
Azimuth: 090 degrees AMG
EOH: 400.3m

DHEM Specifications

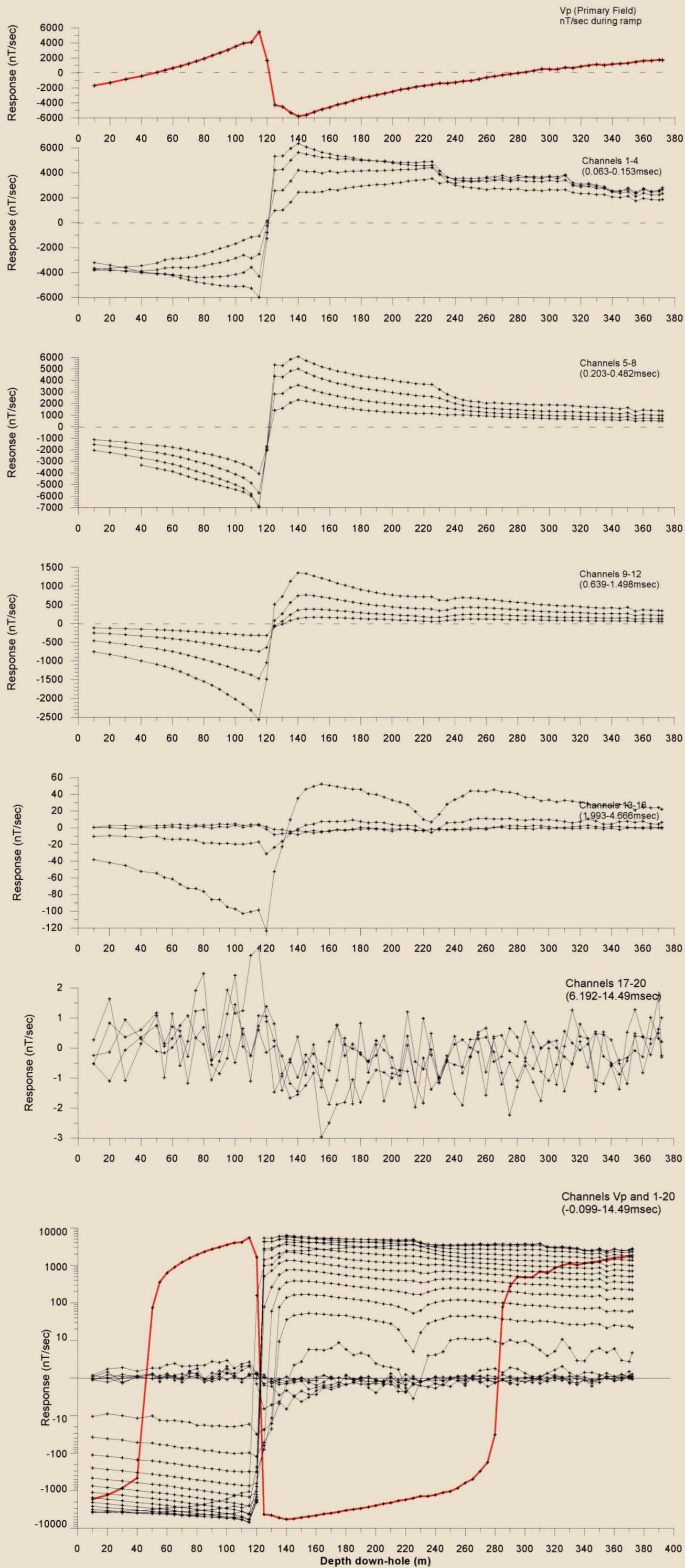
Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x300m
Current: 28A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec

WSP4



427393

Figure 15



RGC Exploration

White Spur Project
Down-Hole EM Results
V Component
WSP4
Transmitter Loop 2

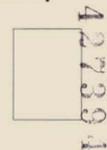
Hole Specifications

Hole Number: WSP4
Completed: April 1997
Collar Easting: 376476mE
Collar Northing: 5361675mN
RL: 577m
Inclination: 60 degrees
Azimuth: 090 degrees AMG
EOH: 400.3m

DHEM Specifications

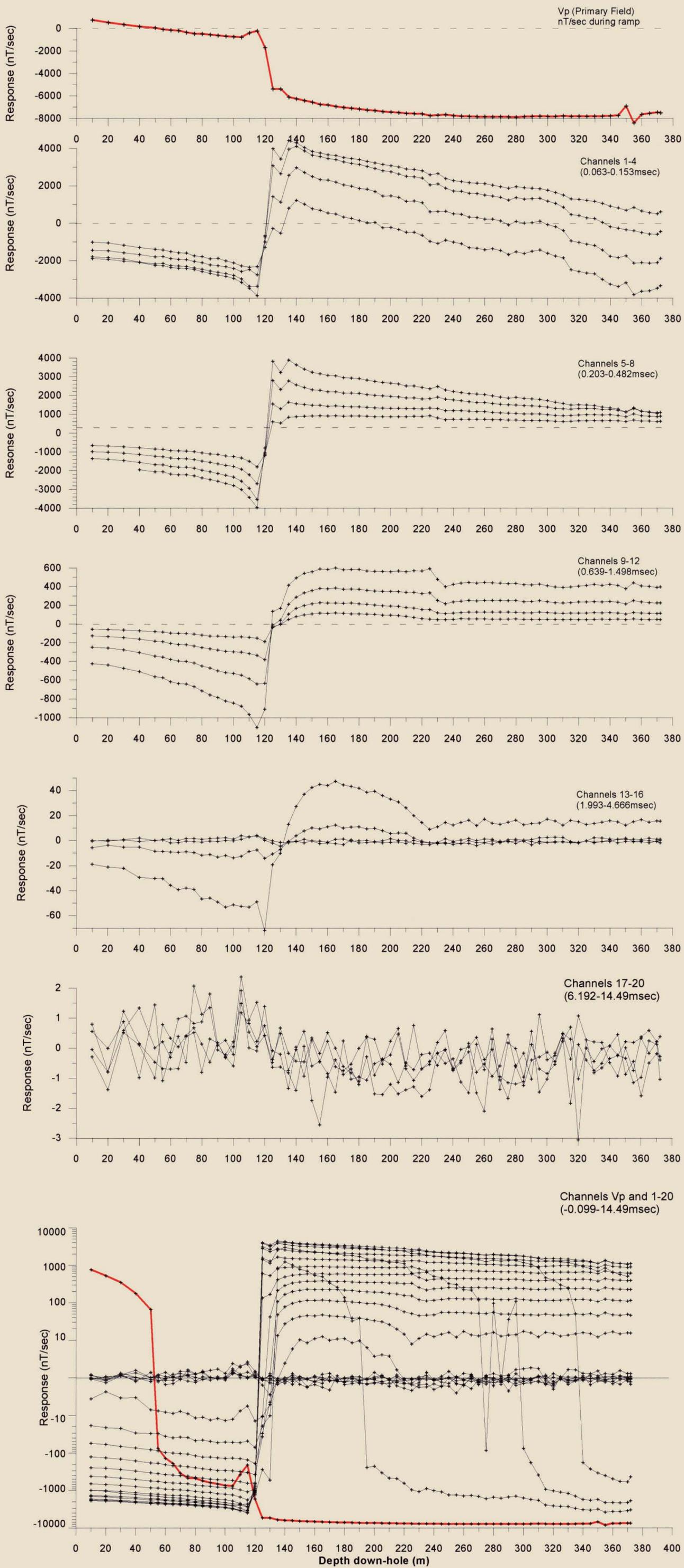
Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x300m
Current: 28A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec

WSP4



427394

Figure 16



RGC Exploration

White Spur Project
Down-Hole EM Results
U Component
WSP4
Transmitter Loop 2

Hole Specifications

Hole Number: WSP4
Completed: April 1997
Collar Easting: 376476mE
Collar Northing: 5361675mN
RL: 577m
Inclination: 60 degrees
Azimuth: 090 degrees AMG
EOH: 400.3m

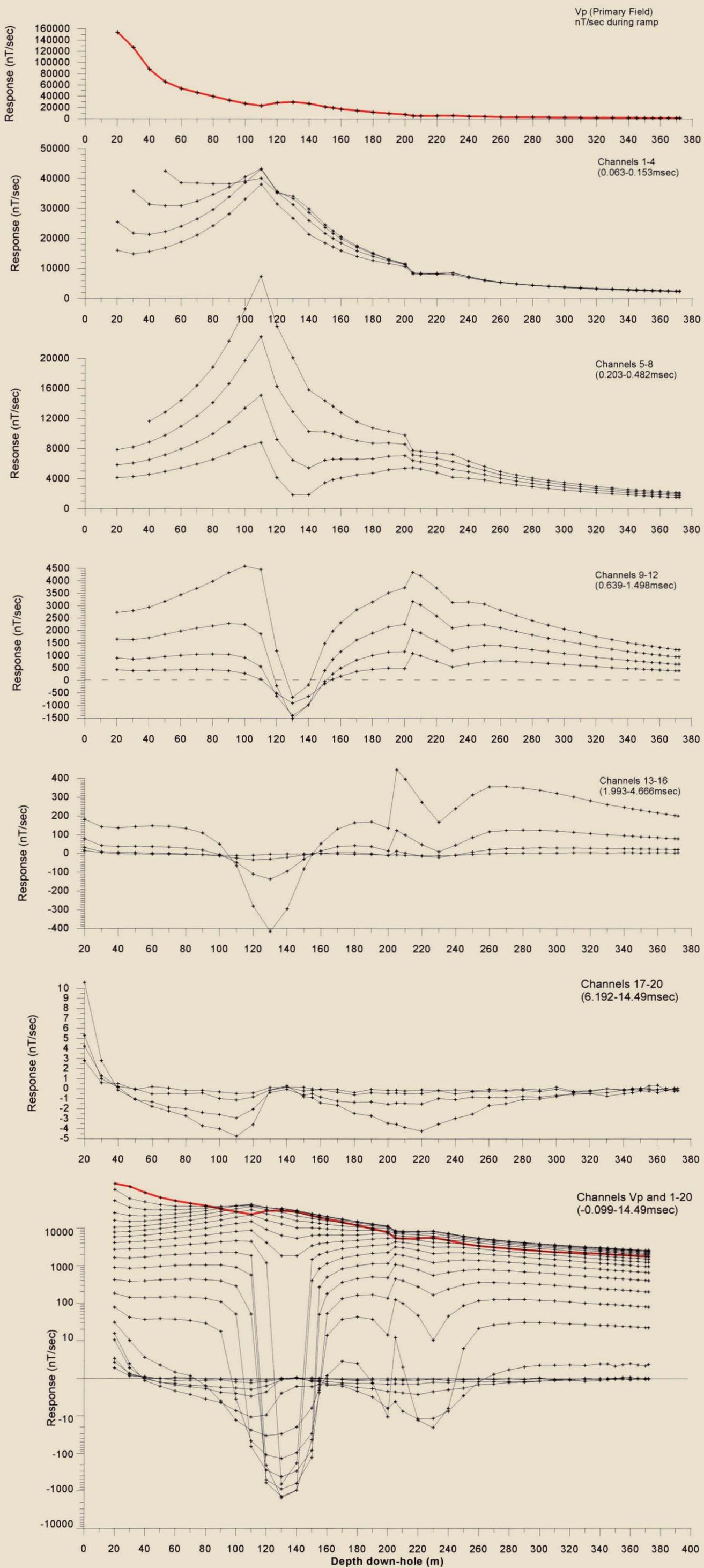
DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x300m
Current: 28A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec

WSP4

427395

Figure 17



RGC Exploration

White Spur Project
Down-Hole EM Results
Axial Component
WSP4
Transmitter Loop 3

Hole Specifications

Hole Number: WSP4
Completed: April 1997
Collar Easting: 376476mE
Collar Northing: 5361675mN
RL: 577m
Inclination: 60 degrees
Azimuth: 090 degrees AMG
EOH: 400.3m

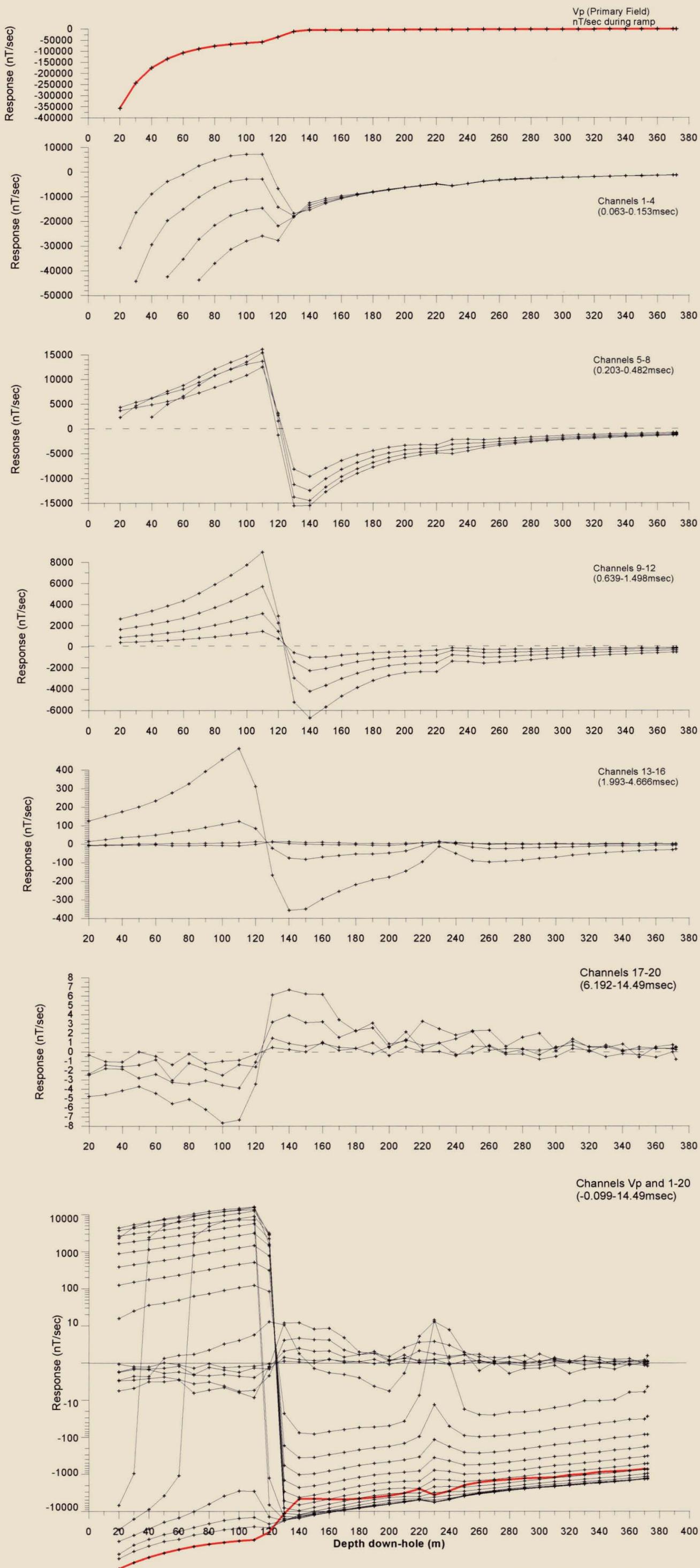
DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x200m
Current: 18A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec



427396

Figure 18



RGC Exploration

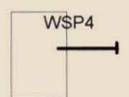
White Spur Project
Down-Hole EM Results
V Component
WSP4
Transmitter Loop 3

Hole Specifications

Hole Number: WSP4
Completed: April 1997
Collar Easting: 376476mE
Collar Northing: 5361675mN
RL: 577m
Inclination: 60 degrees
Azimuth: 090 degrees AMG
EOH: 400.3m

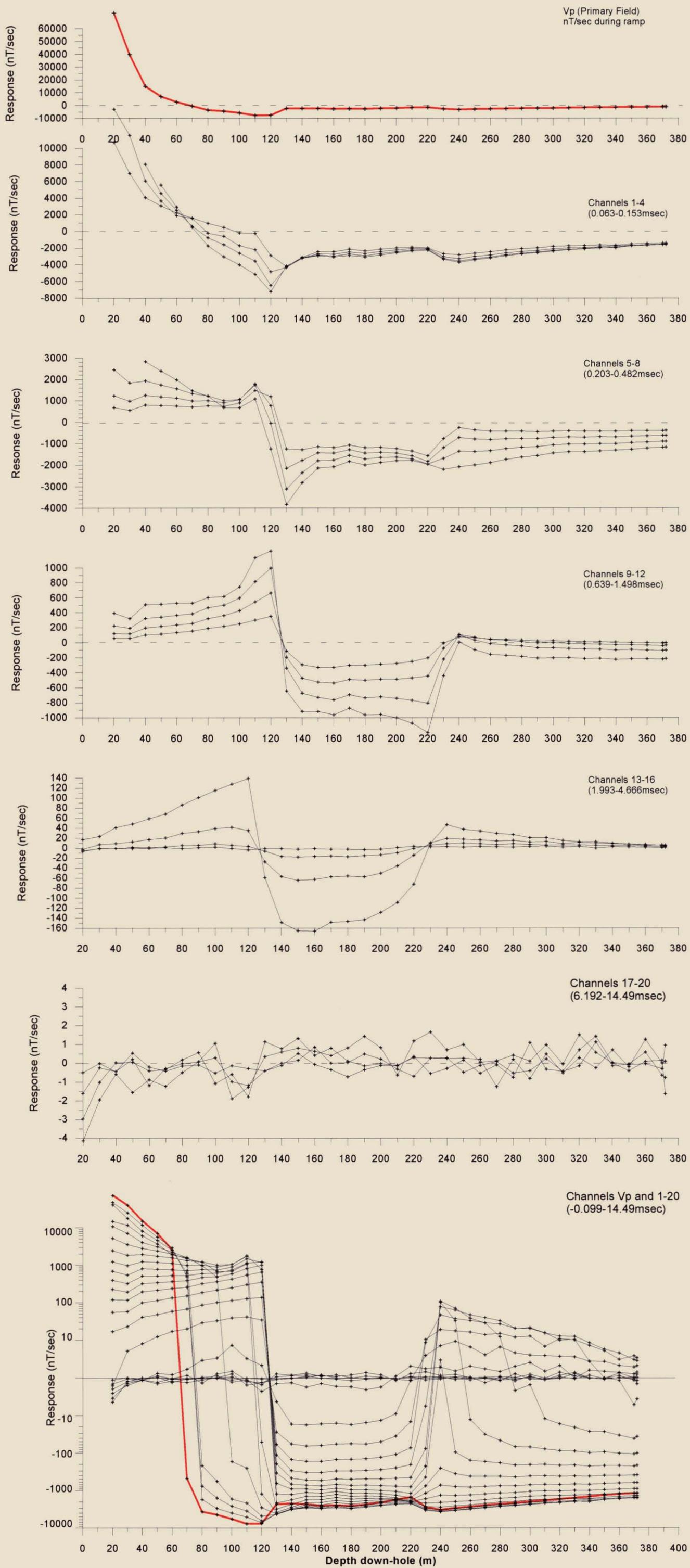
DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x200m
Current: 18A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec



427397

Figure 19



RGC Exploration

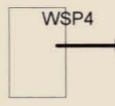
White Spur Project
Down-Hole EM Results
U Component
WSP4
Transmitter Loop 3

Hole Specifications

Hole Number: WSP4
Completed: April 1997
Collar Easting: 376476mE
Collar Northing: 5361675mN
RL: 577m
Inclination: 60 degrees
Azimuth: 090 degrees AMG
EOH: 400.3m

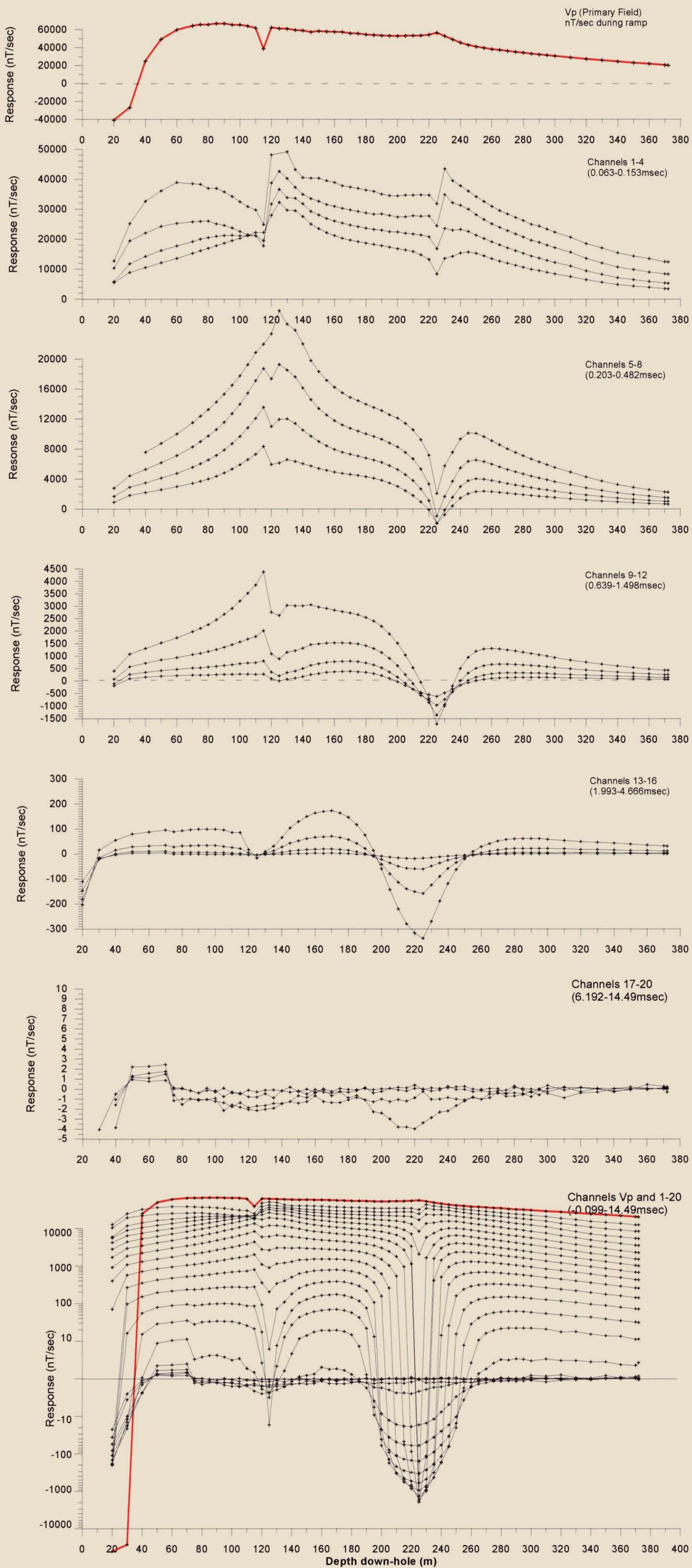
DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x200m
Current: 18A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec



427398

Figure 20



RGC Exploration

White Spur Project
Down-Hole EM Results
Axial Component
WSP4
Transmitter Loop 4

Hole Specifications

Hole Number: WSP4
Completed: April 1997
Collar Easting: 376476mE
Collar Northing: 5361675mN
RL: 577m
Inclination: 60 degrees
Azimuth: 090 degrees AMG
EOH: 400.3m

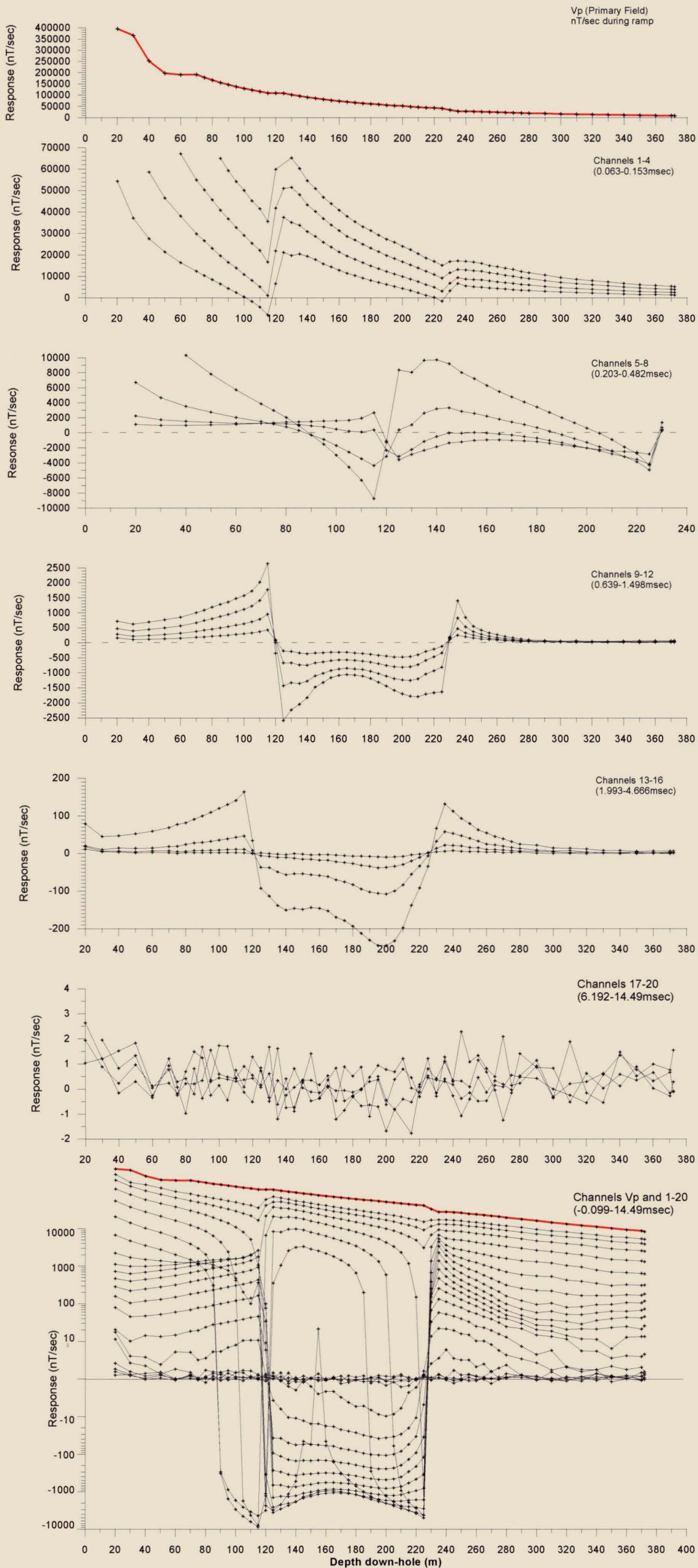
DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x200m
Current: 26A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec



427399

Figure 21



RGC Exploration

White Spur Project
Down-Hole EM Results
V Component
WSP4
Transmitter Loop 4

Hole Specifications

Hole Number: WSP4
Completed: April 1997
Collar Easting: 376476mE
Collar Northing: 5361675mN
RL: 577m
Inclination: 60 degrees
Azimuth: 090 degrees AMG
EOH: 400.3m

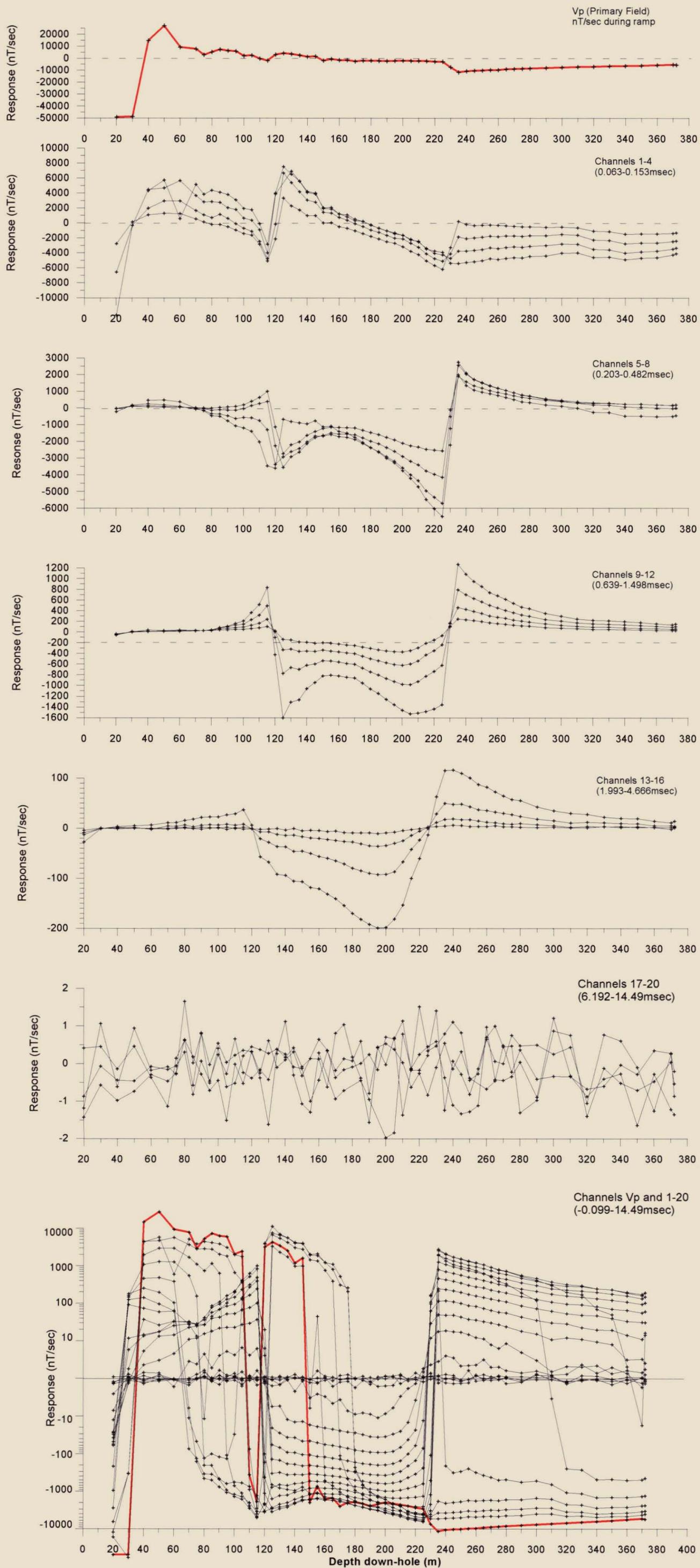
DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x200m
Current: 26A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec



427400

Figure 22



RGC Exploration

White Spur Project
Down-Hole EM Results
U Component
WSP4
Transmitter Loop 4

Hole Specifications

Hole Number: WSP4
Completed: April 1997
Collar Easting: 376476mE
Collar Northing: 5361675mN
RL: 577m
Inclination: 60 degrees
Azimuth: 090 degrees AMG
EOH: 400.3m

DHEM Specifications

Contractor: OUTER RIM
Survey Date: July 1997
System: CRONE TEM 3 Component
Tx Loop Size: 400x200m
Current: 26A
Time Base: 20msec
Ramp Time: 0.50msec
Units: nT/sec



427401

Figure 23

APPENDIX 17

White Spur Project CSAMT Survey Results

Chris Dauth



427403

ACN 001 426 946

INTERNAL REPORT

WHITE SPUR 23-17

EL 5/96

**White Spur Project
CSAMT survey Results**

Vol 1 of 1

HELD BY: Chris Dauth

MANAGER & OPERATOR: RGC Exploration Pty Ltd

AUTHOR(s): Chris Dauth

11 March, 1998

PROSPECTS: Anneliese

MAP SHEETS: 1:100,000: Sophia 1:250,000: Queenstown

**GEOGRAPHIC COORDS Min East: 377 080mE Max East: 378 300mE
Min North: 5 358 200mN Max North: 5 359 000mN**

COMMODITY(s): Cu, Pb, Zn, and Ag

KEY WORDS: base-metals, conductivity, CSAMT, EM, mineralisation, pyrite, pyrrhotite, resistivity, siltstone

Distribution:

- o RGC Exploration Information Centre Reference:
- RGC Zeehan

SUMMARY

A controlled source audio-magnetotelluric (CSAMT) geophysical survey was conducted at the White Spur Project, Tasmania. The White Spur Project is currently being explored by RGC Exploration for its potential to host Rosebery style volcanic hosted massive sulphide (VHMS) mineralisation. Exploration is focused upon a geological contact, comprising the Lower Central Volcanic Sequence and the overlying White Spur Formation. This geological contact is believed to be the same position as the Rosebery, and Hercules VHMS deposits, located within 12km to the north.

The CSAMT technique produces anomalous response over geological units that have high electrical conductivities. It is a deep sounding method, and may detect conductive geological units to depths in excess of 2km. The aim of conducting the survey at White Spur was to delineate conductivity anomalies that would be associated with conductive sulphide minerals within a VHMS deposit (predominantly pyrite, galena, and chalcopyrite). It was also intended that the data would facilitate geological mapping by delineating black siltstone horizons, which may be similarly highly conductive.

The survey was conducted in May-June 1997 by Zonge Engineering Pty Ltd using the Zonge GDP-16 receiver and Zonge 30kW transmitter. A total of 23.5km of data on 16 east-west oriented lines were acquired. Data were collected at 50m station interval on lines spaced 400m apart. Survey lines were designed to traverse the White Spur Formation and Central Volcanic Sequence contact.

Data have been static corrected and compiled into spreadsheet format. Each survey line has been plotted as a pseudosection and presented in this report. One dimensional and two dimensional modelling of data have not been conducted at this stage. Modelling of the CSAMT data would assist in quantitatively determining the geological structure further to the west of the White Spur Project where the White Spur Formation overlies the Central Volcanic Sequence. If exploration was to proceed within this area (requiring a commitment to deep drillholes) then computer modelling should be conducted. Several commercially available packages exist that are suited to computer modelling of CSAMT data.

Survey data are plotted as apparent resistivities where the lower the apparent resistivity, the lower the conductivity. The abundance of black siltstone horizons at White Spur resulted in a varied CSAMT section across the survey area, and delineation of numerous anomalous responses. The CSAMT technique was successful in delineating black siltstone units within the White Spur Formation. The black siltstones are very non-uniform in electrical properties. This has been correlated to the varying content of pyrite and more importantly pyrrhotite within the siltstones. Comparison of CSAMT results and core measurements showed that the lowest apparent resistivities correlate with black siltstones containing pyrrhotite in veinlets, in bedding planes and along a foliation orientation. Relatively low apparent resistivities were also observed where black siltstone units contain large percentages of pyrite. Moderate apparent resistivities (100-500 ohm.m) are observed over black siltstones barren of pyrrhotite and pyrite. Black siltstones do not tend to be graphitic in composition.

Generally, the Central Volcanic Sequence lithologies (located in the east of the tenement) are highly resistive, which contrasts with the White Spur Formation lithologies which are generally more conductive in nature. The upper units of the White Spur Formation, ashy siltstones, greywackes, and volcanoclastics tend to be more resistive than the underlying White Spur Formation closer to the Central Volcanic Complex contact. These lower stratigraphic

units of the White Spur Formation contain abundant black siltstone horizons and consequently are more conductive.

The units generally dip to the west and outcrop extensively throughout the survey area. Weathered overburden and glacial cover are not considered to be a significant obstacle to electrical measurements. Results on the western extent of the survey lines suggest that the stratigraphy is gently folded resulting in shallower depths to the Central Volcanic Sequence contact than originally thought. CSAMT pseudosections show some evidence of strike-slip faulting in a north-south orientation. In addition, several east-west oriented faults have been delineated. Dip-slip faults are evidenced through off-sets in delineated north-south oriented stratigraphic conductors (black siltstone horizons). Faults may form viable exploration targets for drillholes as they form favourable sites for VHMS mineralisation. The north of the survey area is structurally complex, exhibiting several folds resulting in stratigraphic repetitions. This complex geology is mirrored by a similarly complex CSAMT section.

In addition to assisting with the geological mapping at White Spur, several discrete conductive zones were delineated that could not be explained by known black siltstone horizons. These have been recommended for detailed ground follow-up to try and identify whether the anomalies can be explained by black siltstones. One of the delineated CSAMT anomalies was drill tested by diamond hole WSP8 (positioned to test coincident geological and geophysical anomalies). This hole intersected a black siltstone horizon containing pyrrhotite at a depth of approximately 200m. It is considered likely that this geological unit was the source of the CSAMT anomaly. Ground magnetic data over this line shows anomalous total magnetic intensity at the same position due to the pyrrhotite within the siltstone. As a consequence, CSAMT anomalies should be screened using both ground mapping and ground magnetic traverses. Anomalies unable to be explained by either should be drill tested. Locations of four unexplained CSAMT anomalies are presented in this report and are recommended for follow-up.

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LIST OF PLANS

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1. INTRODUCTION

White Spur (EL 5/96), located approximately 14km south of Rosebury, Western Tasmania, is currently being explored by RGC Exploration for volcanic hosted massive sulphide (VHMS) deposits. This report presents the results of a controlled source audio magneto-telluric (CSAMT) geophysical survey conducted as part of ongoing exploration activities.

White Spur has the potential to host Rosebery style Cu-Pb-Zn-Ag mineralisation. The North Henty Fault transects the tenement, and cross-cuts the N-S striking western White Spur Formation and the eastern Central Volcanic Complex of the Mt Read Volcanics. Field mapping and several ground and airborne geophysical surveys have been conducted to date.

The CSAMT technique is an electromagnetic geophysical method that produces an anomalous response over geological units that have low electrical resistivity (or conversely high conductivity). The aim of the survey was to delineate discrete conductive zones that may be associated with electrically conductive sulphide accumulations within a VHMS deposit. Use of alternative geophysical methods (magnetics and VLF) and geological mapping has been used to screen CSAMT anomalies caused by conductive geological units such as black siltstones which do not form exploration targets.

2. GEOLOGY

This summary of the geological setting at White Spur is derived from the drill logs of diamond holes in the region, surface mapping results (extracted from the RGC database), the 1996-1997 annual report Vicary (1997), and pers. comm. with Vicary 1996-1998. Information is biased so as to provide relevant information for the interpretation of electrical geophysical data.

The project area comprises a north-south striking package of lithologies of the Lower White Spur Formation, and the Upper Central Volcanic Complex (CVC). The contact transects approximately through the centre of the tenement area, and generally dips to the west.

The White Spur Formation typically comprises a sequence of interbedded black siltstones, ashy volcanoclastic siltstones, quartz-feldspar volcanoclastic sandstones, and mass flows. Clasts of massive sulphide have been identified within the lower massflows of the White Spur Formation, and are interpreted to be eroded fragments of local sulphide accumulations carried downslope by massflows. The black siltstones are quite extensive on the western margin of the survey region and are observed in outcrop along road and water channel cuttings. Black siltstones contain inconsistent concentrations of pyrite and pyrrhotite. These sulphide minerals tend to exist in veinlets, bedding, and foliation planes. Measurements made on core samples indicate that electrical connection is often continuous where sulphide concentrations are high. The pyrrhotite is magnetic in character, and is an order of magnitude more conductive than the pyrite in observed drill core.

The CVC typically comprises felsic volcanic lavas and volcanoclastic sediments with only minor siltstones. Intrusive rhyolites and thin mafic dykes/sills have also been mapped within the CVC. A summary plan of the geology at the White Spur Project is presented in Plan 1. This plan is currently in the progress of being updated.

Several alteration zones have been identified at White Spur. Alteration types encountered have been consistent with those commonly observed proximal and distal to VHMS mineralisation. These include sericite-silica-pyrite, and a regional chlorite-albite? alteration. In addition,



Figure 1. White Spur Project Location Plan



pyrrhotite rich black siltstones are observed at White Spur. The significance of the pyrrhotite (if any) as an alteration mineral is not currently understood, however it is an important sulphide mineral to identify when conducting electrical geophysics due to its high conductance.

Drill holes to date have only intersected minor base metals mineralisation. The most successful results were achieved in WSP5 which intersected disseminated and microveins of sphalerite and galena over approximately 20m at 300m depth.

The main structural elements at White Spur include the NE-SW oriented North Henty Fault in the south of the tenement. A number of east-west oriented faults that displace the White Spur-CVC contact by distances in the order of 500m have been delineated by either field mapping or in geophysical data. These faults may be growth faults active during mineralisation, and could have conceptually controlled mineralisation by acting as fluid conduits.

3. THEORETICAL CONSIDERATIONS

CSAMT is an electromagnetic geophysical method that provides information on the ground electrical properties by mapping both lateral and vertical contrasts in resistivity. The method is commonly used to map sub-surface resistivity variations to depths in-excess of 2km.

An artificially controlled induced electromagnetic field is created using a remote single grounded wire (the controlled source). The field is produced by a 1-2km long grounded bipole powered by a high powered transmitter and motor generator. The transmitter bipole is usually located 3-10km from the survey region in order to provide a uniform plane wave polarised electromagnetic field at a number of frequencies. (most commonly in the 0.5-10k Hz bandwidth). The transmitter bipole is usually set-up perpendicular to, and along geological strike of the area of interest.

Survey lines are traversed perpendicular to the geological strike. Measurements are made of the horizontal electric (E) and the magnetic (H) components of the EM field at a pre-defined frequency. A parameter known as the Cagniard Resistivity (an apparent resistivity dependent on both the ground resistivity, survey configuration and depth) is computed at each measurement frequency using the equation:

$$\text{App. Res.} = (1/5f) * |E_x/H_y|^2$$

The depth of investigation with the CSAMT technique is a function of both the ground resistivity, and the frequency of the transmitted electromagnetic field. The lower the frequency, the greater the depth of investigation. A "skin depth" equation is often used (and commonly misused) which gives some indication of the depth of investigation at a certain frequency.

$$\text{Skin depth} = 356 * \text{resistivity}/f$$

Therefore, the higher the resistivity of the ground and the lower the frequency used, the greater depth will be observed. However, it must be pointed out that the resistivity used in this equation refers to the bulk resistivity. Therefore, if a highly conductive (low resistivity) unit overlies a resistive unit, then it is possible that the lower unit may be masked by the overlying conductive unit.

Measurements are made at a number of frequencies enabling plotting of data as a pseudosection, with Cagniard Resistivity values plotted against frequency.

It is important to note that sections often have an appearance of striping vertical anomalies (where low Cagniard Resistivities are recorded) on a background showing a layered appearance. The reason that low resistivity anomalies appear vertical in section is due to the fact that the depth of investigation decreases with increasing frequency. Therefore, a conductor extending to 200m depth may be observed in many frequencies (ie the depth of investigation is smaller), whereas resistive ground located on either side of the conductor will have a far greater depth of investigation. It is for this reason that Cagniard resistivity sections should not be observed as true depth sections. The layered appearance of many CSAMT sections is a result of "near field" results at increasingly lower frequencies. In resistive ground, the induced electromagnetic plane-wave field may not necessarily be uniform closer to the transmitter, and at lower frequencies. Therefore, often at lower frequencies, a migration to "near field" effects is observed whereby calculated apparent resistivities increase with decreasing frequency. This is often easily identified in the pseudo-section and should not be mis-interpreted as being due to increasing ground resistivity. Algorithms have been developed that perform corrections on the data (often referred to as the static correction) that reduce the effect of these inherent features of Cagniard Resistivity pseudo-sections.

In addition to computation of the resistivity data, CSAMT survey data may include an impedance phase parameter. This is the relative phase between the measured E and H fields. Use of this parameter is not well documented in the literature, and it generally does not commonly play a large role in interpretation.

4. SURVEY PARAMETERS

The survey was conducted in May-June 1997 by Zonge Engineering Pty Ltd using the Zonge GDP-16 receiver and Zonge 30kW transmitter. A total of 23.5km of data on 16 east-west oriented lines were acquired. Data were collected at 50m station interval on lines spaced 400m apart. Survey lines were designed to traverse the White Spur Formation and Central Volcanic Sequence contact. Location of survey lines is displayed in Plan 1.

A 1.5km east-west oriented transmitter was placed approximately 10km from the survey lines at 5370000mN, from 377000mE to 3785000mE. The Zonge 30kWatt transmitter was set-up at the transmitter with grounded electrodes at either end. During the survey, frequencies of 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, and 8192 Hz were applied. Measurements of four east-west oriented electrical fields (E_x) were measured simultaneously with porous porcelain pot electrodes separated 50m apart. A central magnetic field component in the direction of the transmitter H_y was taken every 200m (the H field is not observed to vary greatly across the survey area, and it is the E field which most contributes to variations in the calculated Cagniard Resistivity).

Stacks at each survey station were taken so as to achieve satisfactory noise envelopes. The number of stacks varied from location to location, and often depended on temporal and spatial noise factors (ie some areas tended to be more noisy than others, and some days gave noisier results than others).

5. RESULTS

CSAMT data have been compiled, and pseudo-sections plotted of the Cagniard Resistivity parameter. Impedance phase plots of the CSAMT data have also been compiled. In addition, static corrected Cagniard Resistivities were computed, and have also been plotted as pseudo-sections. It was only considered necessary to present results of the static corrected data in the context of this report. Digital data has been provided in the sleeve of this report that contains the impedance phase and the raw Cagniard Resistivity data.

Static corrected Cagniard Resistivity sections are presented in Figures 2 to 17. Results for each of these sections is first discussed independently, and then a general interpretation compiled into Plan 2 is discussed. The data were generally of a high quality, and exhibit a great range in calculated apparent resistivity values. Readings as low as 0.1 ohm.m and in excess of 1000000 ohm.m were recorded. The lowest apparent resistivities have been correlated in places to black siltstone horizons with abundant pyrrhotite content. The extremely high resistivity values are a result of "near field" effects (a geometrical survey effect not geological in origin). "Near field" data are usually encountered at frequencies lower than 512Hz.

Line 5358200mN

The White Spur Formation (WSF) and CVC contact coincides with a linear resistivity contact at 7575mE. This location similarly coincides with the North Henty Fault position, and differentiation of the CSAMT anomaly source is difficult. Background resistivities are relatively high over both the WSF and the CVC. No drill targets delineated.

Line 5358400mN

The WSF and CVC contact is interpreted to be at 7575mE. Slightly lower apparent resistivities are encountered at 7725mE interpreted as the North Henty Fault position. No drill targets defined.

Line 5358600mN

The WSF and CVC contact is interpreted to be at 7675mE. Low resistivity anomalies at 7650mE and 7375mE are interpreted to be black siltstones. A low resistivity anomaly at 7775mE within the CVC is not explained and presents a potential target for follow-up. It is quite likely that the anomaly could be the expression of the North Henty Fault, which is mapped on geological plans a further 75m to the east. Therefore the anomaly forms only a low priority target.

Line 5359000mN

A change in the electrical nature of the WSF is noted from lines to the south of 5359000mN to those to the north. Data including and north of Line 5359000mN are substantially more conductive. This is interpreted to be the result of an east-west growth fault that would have been active during basin formation. The northern lithologies are interpreted to represent deeper lower energy basinal siltstones (thus the high conductivity). This growth fault is supported further by helimagnetic data and VLF data which indicate an east-west break in stratigraphy. The WSF and CVC contact is interpreted at 7775mE. Conductive black siltstones are interpreted at 7525mE and 7325mE. A conductor at 8175mE coincides with the North Henty Fault position. An additional conductor centred at 7950mE within the CVC is not explained by

known geology. The apparent resistivity values are sufficiently low and extend to low frequencies which excludes glacial cover as a possible anomalous source. This anomaly provides a high priority target recommended for follow-up.

Line 5359400mN

The WSF and CVC contact is interpreted at 7700mE. Conductors situated at 7625mE, 7325mE, and 6900mE are attributed to black siltstones within the WSF. A deep conductor at 6450mE (128Hz) is currently interpreted as black siltstones within the fold hinge of an anticlinal structure in the WSF. Since the fold occurs at depth, geological confirmation is not possible. The significance of this structure is that it may shallow the depth of the WSF-CVC contact to within economic exploration depths. Computer modelling of the CSAMT data would be required to quantitatively determine the exact depths. Qualitative estimates are in the order of 200-500m. Evidence does exist for a north-south oriented strike-slip fault at 6650mE. Such a fault with a west up-thrust movement may explain the shallower depths to conductive lower WSF black siltstones to the west. No drill targets are defined.

Line 5359800mN

The WSF and CVC contact is interpreted at 7650mE. Conductors attributed to black siltstones occur at the contact (7625mE), 7525mE, 7225mE, 7000mE, 6775mE, and in the interpreted anticlinal fold hinge at 6450mE. The deep conductor interpreted as black siltstones within the interpreted anticlinal fold hinge at 6450mE is anomalously low in apparent resistivity (3 ohm.m at 128Hz). The absence of a magnetic anomaly at this location (conceptually excluding pyrrhotite as a conductive source) upgrades this conductor as a potential drill target. Modelling would be required to determine depth estimates. In addition a commitment to deep possibly stratigraphic holes is also required.

Line 5360200mN

The WSF and CVC contact is interpreted at 7550mE. An very good conductor (with a coincident magnetic anomaly) is observed at 7475mE (<1 ohm.m). Drillhole YWS1 has tested this horizon. Observations on the drill core showed intersections of pyrrhotite rich black siltstones. Simple DC resistance measurements with a multimeter showed continuance and very low resistances associated with the pyrrhotite. Conductors attributed to black siltstones are interpreted at 7375mE, 7200mE, 6675mE, 6525mE (possibly the interpreted extension of the north-south strike slip fault) and in the interpreted anticlinal hinge at 6350mE. No drill targets are defined.

Line 5360600mN

The WSF and CVC contact is interpreted at 7225mE. The western translation of the position of the contact from the southern line 5360200mN is explained by two east-west dip slip faults. These are displayed in Plan 2. The existence of these faults immediately upgrades the region as having structural complexity. Conductors interpreted as due to black siltstones are at 7175mE, 6975mE, 6625mE, 6425mE (also the interpreted north-south fault intersection), and in the interpreted anticlinal fold hinge at 6250mE. The unusually sharp conductor at 6625mE also coincides with a truncation of a high amplitude magnetic anomaly. This has been interpreted as a second north-south fault zone. A conductor observed in high frequencies at 7325mE within the CVC has not been explained by known geology. This anomaly should be followed-up on the ground, and does present a secondary target. Geological mapping suggests the WSF-CVC contact is situated at 7270mE.

Line 5361000mN

The WSF and CVC contact is interpreted at 7075mE. The western movement of the contact from the line to the south is interpreted as due to lateral displacement by an east-west fault evidenced also in helimagnetic data. A conductor at 7025mE initially considered a viable target (due to no known coincident black siltstone horizon) has since been tested by WSP8. WSP8 intersected pyrrhotite rich black siltstone which is able to explain the CSAMT anomaly. Additional conductors on this line are attributed to black siltstones (6775mE, 6525mE, 6325mE and 5625mE). No further drill targets recommended.

Line 5361400mN

The WSF and CVC contact is interpreted at 7025mE. Identification of the contact on this line is very difficult due to lack of contrasting response, therefore confidence on the position is quite low. Conductors attributed to black siltstones are interpreted at 6975mE, 6775mE, 6575mE, and in the interpreted anticlinal hinge at 6175mE. A north-south fault is interpreted at 6600mE (additional evidence for this fault is provided in the magnetic response). Low resistivities along the western margin of the fault are attributed to a pyrrhotite rich (high magnetic signature) black siltstone. Two east-west oriented faults are interpreted to transect the WSF-CVC contact between lines 5361000mN and 5361000mN. No targets are defined.

Line 5361800mN

The WSF and CVC contact is interpreted at 7025mE. NW-SE and NE-SW oriented interpreted structures at this position complicate the exact definition of the contact. Conductors attributed to black siltstones are interpreted at 6875mE, 6725mE, 6525mE, 6400mE, and in the interpreted anticlinal hinge at 6100mE. The interpreted north-south fault signature continues on this line at 6600mE. No targets are defined.

Line 5362200mN

The WSF and CVC contact is interpreted at 7175mE, however it is important to note that identification of the contact north of Line 5361800mN is very difficult. This is a consequence of greater structural complexity at the contact. In fact, north of Line 5361800mN a series of parallel folds mark the surface expression of the WSF-CVC contact rather than a simple steeply westerly dipping contact as observed to the south. A target for further investigation (possible drill testing) is defined at 6450mE. Very low resistivities to the west of the interpreted north-south fault intersection may form a structural target. It is possible that the conductor at this position represents a sulphidic black siltstone, however since the resistivities are anomalously low even for a black siltstone, and due to truncation of the magnetic signature, this target should be considered. Ground observation will only confirm the presence of black siltstones. Conceptually, the target would be a Rosebery analogue whereby the VHMS sulphide accumulation is situated below conductive black siltstones.

Line 5362600mN

The WSF and CVC contact is interpreted at 7325mE. Folding of the resistive CVC is evidenced showing an anticlinal hinge at 7050mE. The interpreted north-south structure transects the line at 6625mE. Interpreted conductivity anomalies due to black siltstones are situated at 7250mE, 6900mE, 6550mE, 6275mE, 6175mE, and 6025mE. No drill targets defined.

Line 5363000mN

Similar to Line 5362600mN, structural complexity complicates the CSAMT section. Interpreted structures are indicated on the interpretation Plan 2. These include several adjacent anticline/syncline structures, and numerous off-setting faults of several orientations. The WSF-CVC contact is interpreted at 7325mE, however the data suggest that the contact either outcrops or comes near the surface through folding to the west. Interpreted black siltstones are indicated at 7275mE, 7075mE, 6825mE, 6575mE, 6175mE, and 6025mE. Interpreted north-south structures/faults intersect the line at 6600mE, and 6175mE. No drill targets are defined.

Line 5363400mN

A significant east-west structure/fault to the north of Line 5363000mN identified in the helimagnetic data is supported by a simplification of the CSAMT section north of this line. The WSF-CVC contact is interpreted at approximately 7000mE. The section suggests a shallow dip on the contact at this point. Black siltstones are interpreted at 6925mE, 6625mE, 6475mE, 6175mE, and 6025mE. North-south structures/faults are interpreted at 6625mE, and 6200mE. No drill targets are defined. Folding evidenced in the southern lines is far less severe on Line 5363400mN and Line 5363800mN which suggest a shallow undulating dip between the WSF and the CVC.

Line 5363800mN

The line is very similar to Line 5363400mN, showing a repetition of all CSAMT features, and thus interpreted geology. The interpreted WSF-CVC contact is at 6925mE. Conductors attributed to black siltstones exist at 6625mE, 6400mE, and 6025mE. North-south interpreted structures/faults transect the line at 6625mN, and 6450mE. No drill targets are defined.

GENERAL DISCUSSION

The CSAMT results largely reflect lithology and structural complexity. Delineation of black siltstone horizons was very successful with the technique. Therefore it was essential to maintain a high level of geological control when interpreting sections for the purpose of target generation. With this in mind, it must also be pointed out that the VHMS model at White Spur is largely based upon the Rosebery VHMS deposit whereby the mineralisation is situated within close proximity to conductive siltstones. Therefore, a suitable drill target might be a conductive zone showing exceptionally lower resistivities than usual for a black siltstone, in addition to the absence of a magnetic signature, and including the right structural environment.

With these criteria used as a model, a total of only four targets considered worthy of follow-up were delineated by the CSAMT survey at White Spur. A fifth target was identified and tested before this report was written. Drill hole WSP8 intersected pyrrhotite rich black siltstones. In addition, a target that would have been recommended had been tested by a previous drill hole, YWS1 which also intersected pyrrhotite rich black siltstones. Although these holes could be deemed failures, it is the opinion of the author that they represented viable targets effectively screened from the multitude of responses observed at White Spur due to the black siltstones. Both holes intersected geology and conductive zones not typical of a black siltstone in close proximity or within a black siltstone near delineated structures. These are exactly the criteria upon which the exploration model is based.

When exploring in such geological terrain, systematic testing of viable targets will always include numerous black siltstone intersections, however the aim should be to reduce the number of anomalies that are required to be tested. The four additional targets delineated by the CSAMT survey are tabulated below. Follow-up would include ground checking (mapping), simultaneous computer modelling of magnetic and CSAMT data, then drill testing.

EASTING	NORTHING	Number	Priority	Description
377975	5359000	#1 CSAMT	1	CSAMT anomaly + structure - magnetics
376475	5359800	#2 CSAMT	3	CSAMT anomaly + inferred structure
377325	5360600	#3 CSAMT	2	CSAMT anomaly + structure - magnetics
376450	5362200	#4 CSAMT	2	CSAMT anomaly + structure -magnetics

Priority refers to the considered importance of the anomaly (1 = high priority, 3 = low priority).

6. RECOMMENDATIONS

Recommendations include the follow-up of four CSAMT anomalies delineated in the results as having the required criteria to have potential for a VHMS deposit. These are tabulated below:

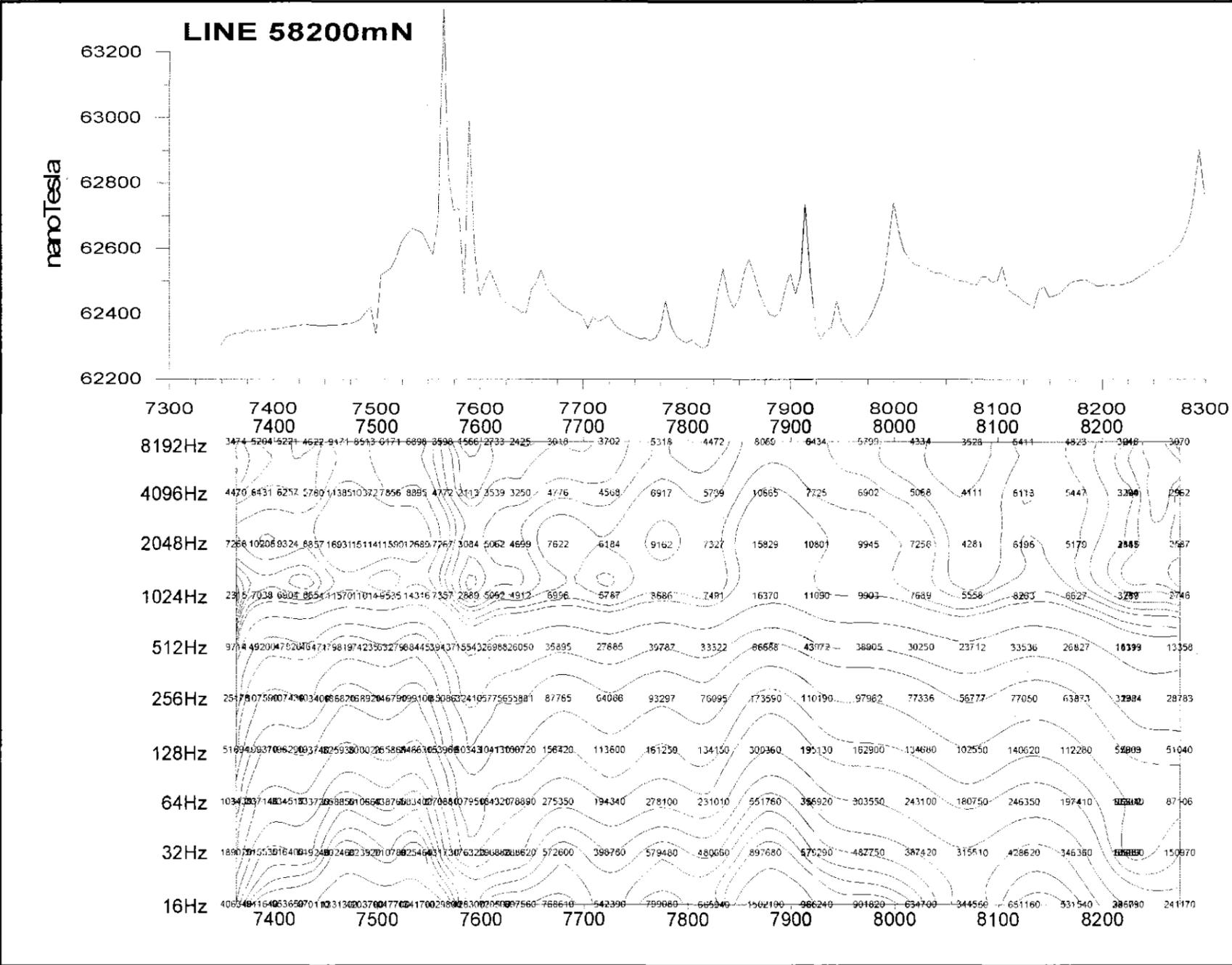
EASTING	NORTHING	Number	Priority	Description
377975	5359000	#1 CSAMT	1	CSAMT anomaly + structure - magnetics
376475	5359800	#2 CSAMT	3	CSAMT anomaly + inferred structure
377325	5360600	#3 CSAMT	2	CSAMT anomaly + structure - magnetics
376450	5362200	#4 CSAMT	2	CSAMT anomaly + structure -magnetics

If exploration was to continue below the White Spur Formation in the west where the contact with the CVC conceptually shallows, then it would be recommended to conduct 2D and 3D computer modelling of the CSAMT data.

The CSAMT data were successful in geological mapping and target generation, however problems associated with software availability, and the need for very good geological control due to the abundance of black siltstone horizons did impact on the quantitative validity of the final interpretation. In addition the supply of modelling software contributed to delay the interpretation of the data. In the future, CSAMT surveys do have application in Tasmania and similar environments where the depth of investigation exceeds those generally achievable through conventional IP techniques.

7. REFERENCES

Vicary, M. J., 1997, EL 5/96 White Spur Annual Report 1996-1997; RGC Exploration Annual Report to Tasmanian Mines Department



**RGC Exploration Tasmania
White Spur Project**

**CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile**

**Figure 2
Line 58200mN**

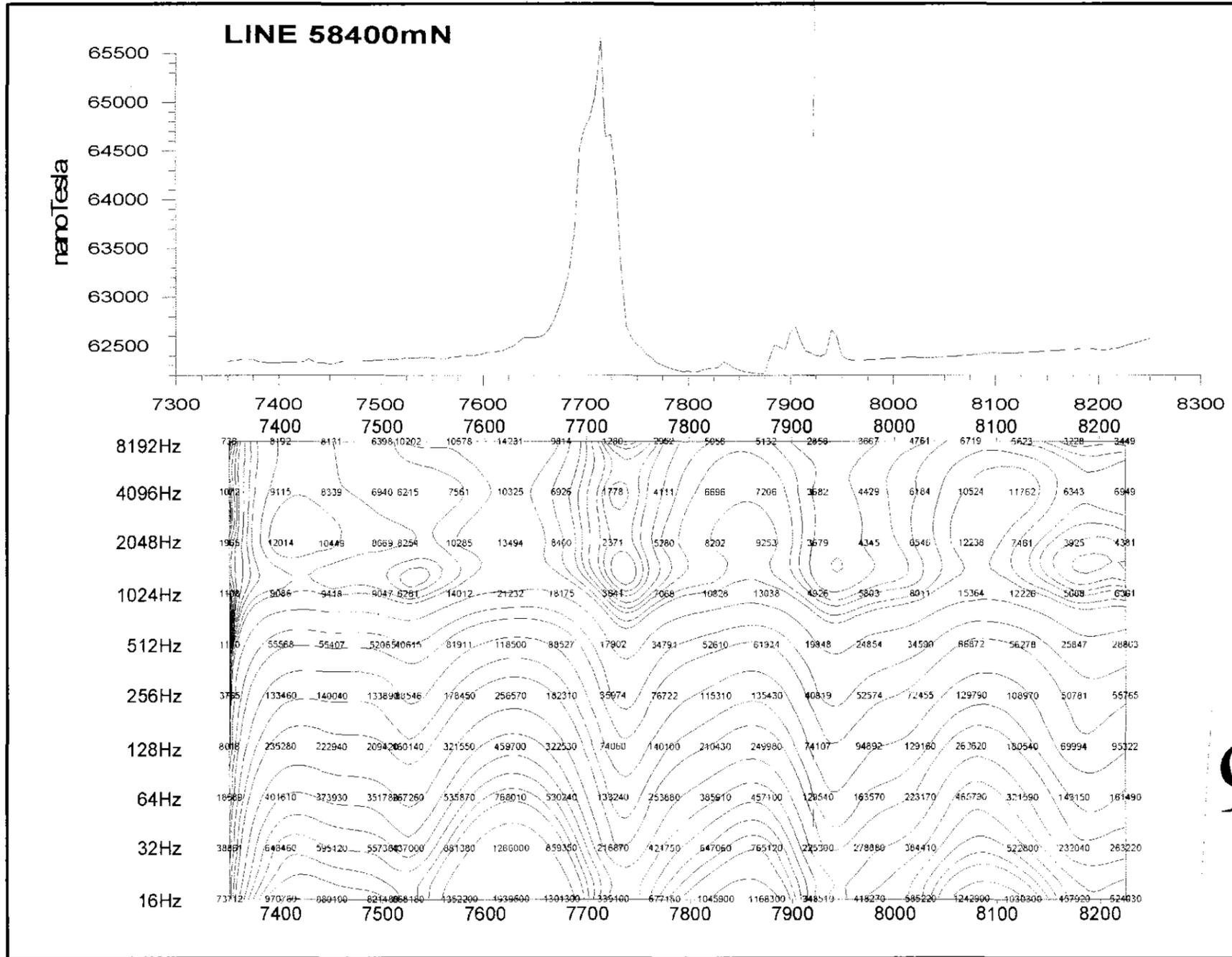
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Receiver Dipole: 50m
Station Spacing: 50m E field 200m; H field
Transmitter: ZONGE 30kVA
Transmitter Length: 1.5km
Transmitter Location: E-W Line 70000mN
Transmitter Current: 3-4 Amps

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Compiled by: Chris Dauth Date: July 1997



**RGC Exploration Tasmania
White Spur Project**

**CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile**

**Figure 3
Line 58400mN**

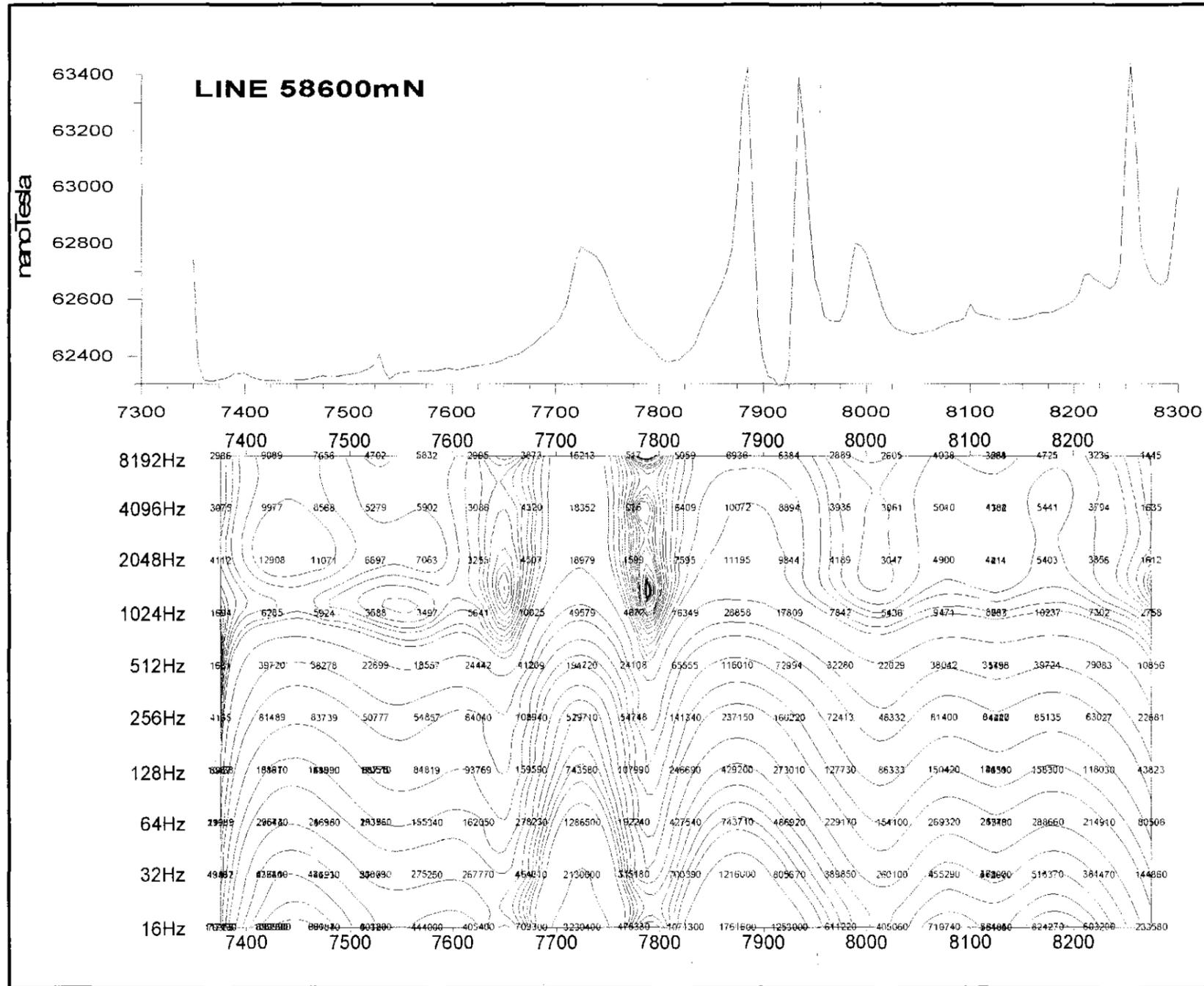
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Receiver Dipole: 50m
Station Spacing: 50m E field 200m, H field
Transmitter: ZONGE 30kVA
Transmitter Length: 1.5km
Transmitter Location: E-W Line 70000mN
Transmitter Current: 3-4 Amps

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**CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile**

**Figure 4
Line 58600mN**

Survey Date: June/July 1997
 Survey Contractor: ZONGE Pty Ltd
 Receiver: GDP16
 Receiver Dipole: 50m
 Station Spacing: 50m E field 200m; H field
 Transmitter: ZONGE 30kVA
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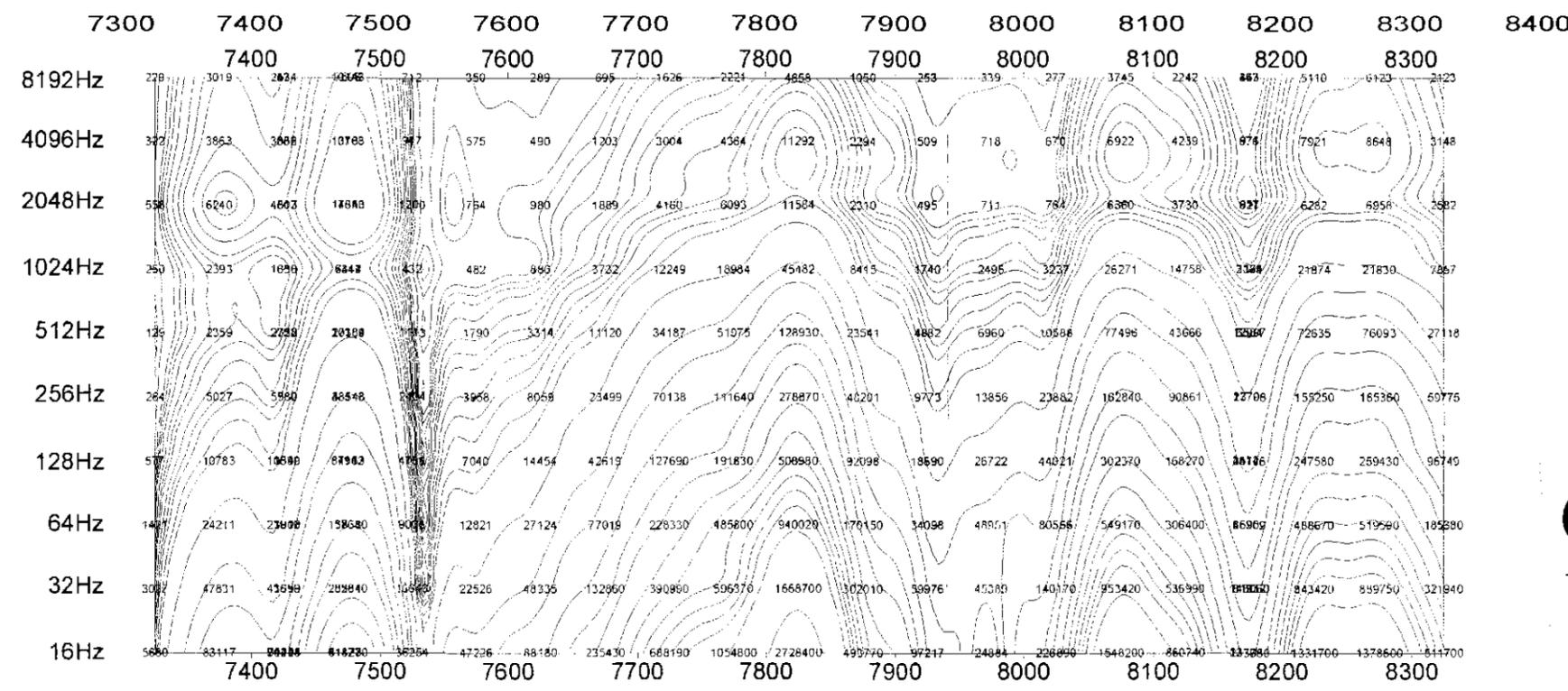
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Compiled by: Chris Dauth Date: July 1997

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nanoTesla
62400
62300
62200
62100

LINE 59000mN



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White Spur Project

CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile

Figure 5
Line 59000mN

Survey Date: June/July 1997
Survey Contractor: ZONGE Pty Ltd
Receiver: GDP16
Receiver Dipole: 50m
Station Spacing: 50m E field 200m; H field
Transmitter: ZONGE 30kVA
Transmitter Length: 1.5km
Transmitter Location: E-W Line 70000mN
Transmitter Current: 3-4 Amps

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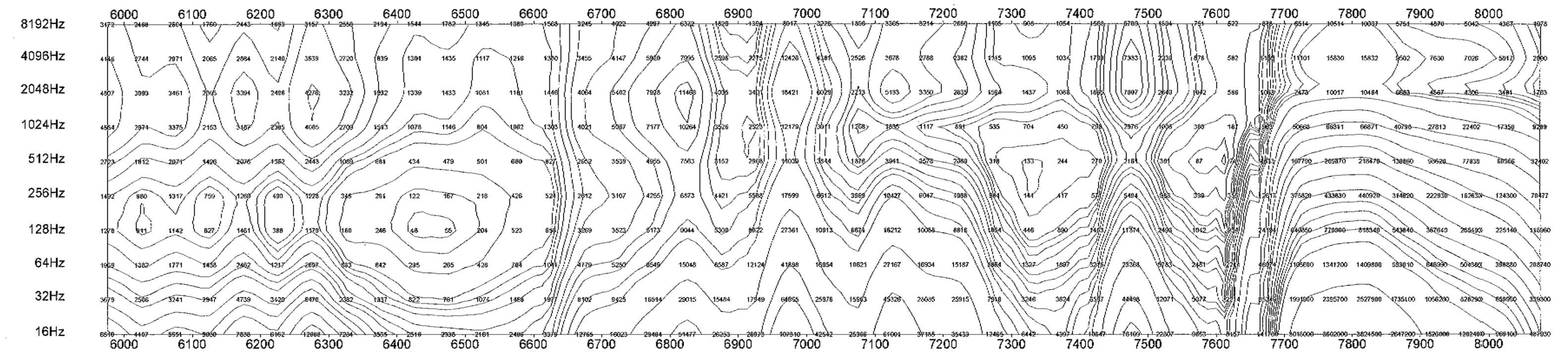
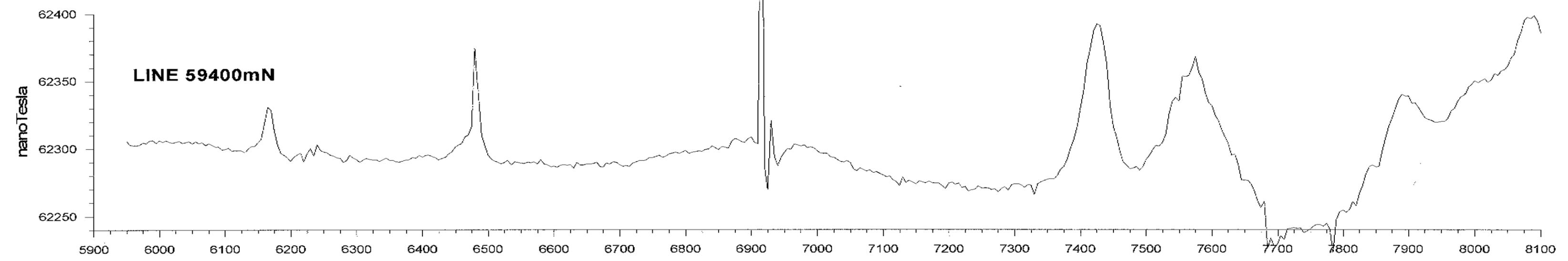
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**RGC Exploration Tasmania
White Spur Project**

**CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile**

**Figure 6
Line 59400mN**



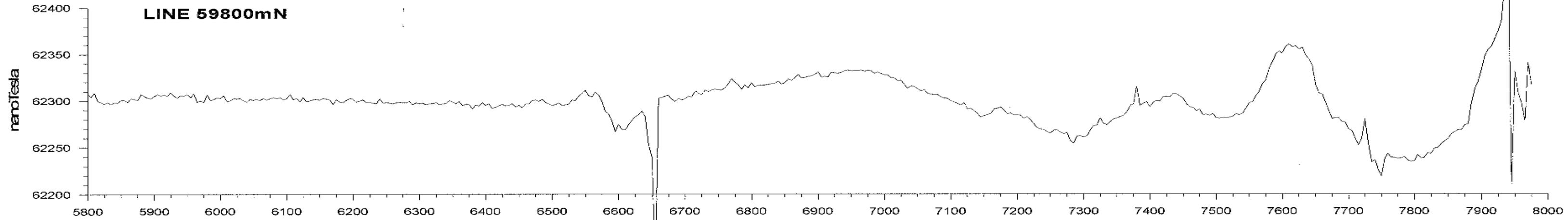
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 Transmitter Length: 1.5km
 Transmitter Location: E-W Line 70000mN
 Transmitter Current: 3-4 Amps

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Compiled by: Chris Dauth Date: July 1997

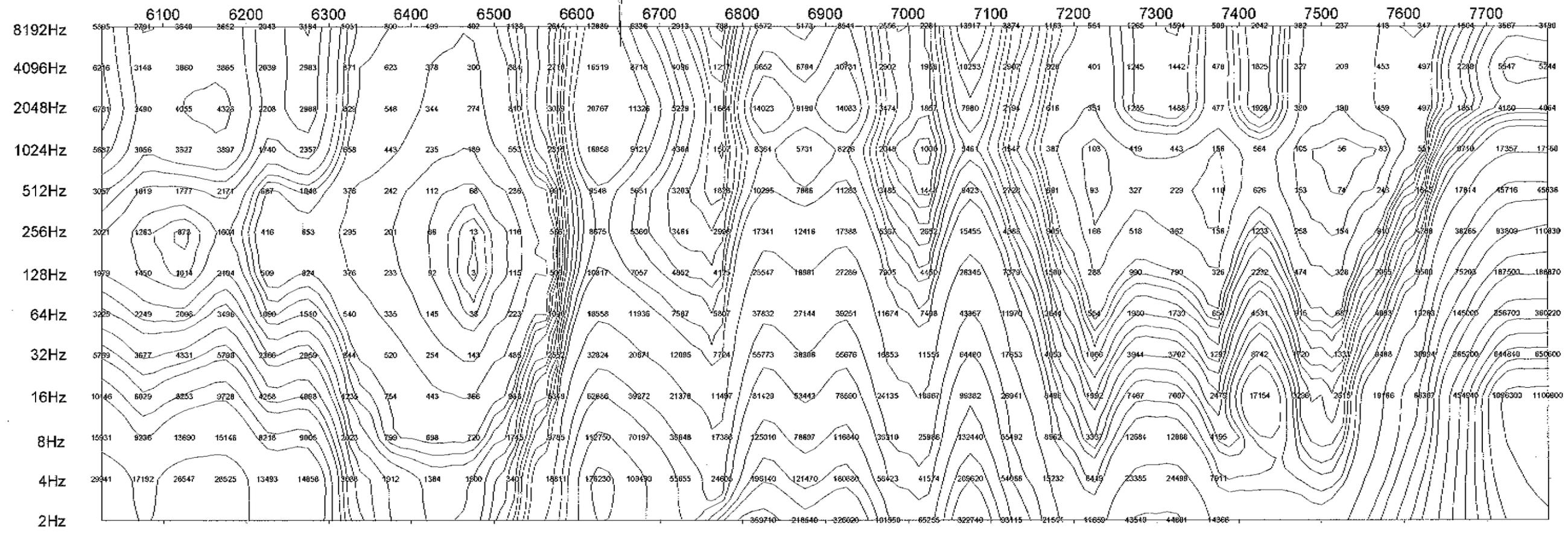
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RGC Exploration Tasmania
White Spur Project

CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile

Figure 7
Line 59800mN



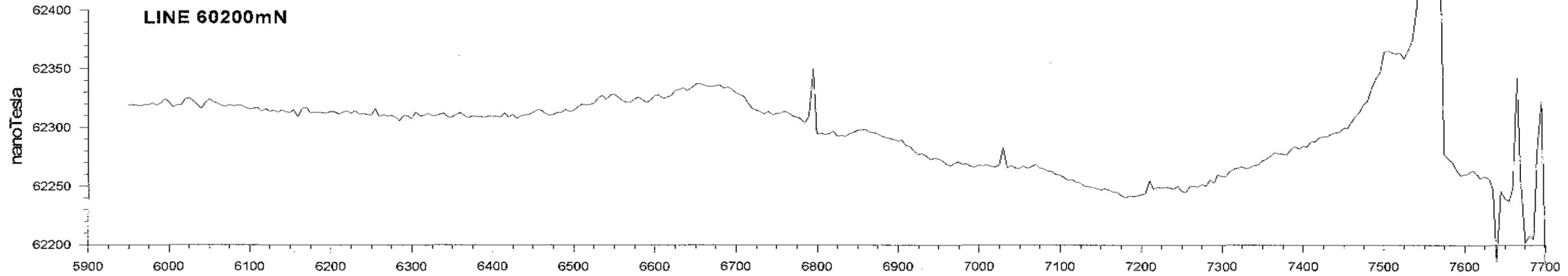
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Receiver: GDP16
Receiver Dipole: 50m
Station Spacing: 50m E field 200m; H field
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Transmitter Length: 1.5km
Transmitter Location: E-W Line 70000mN
Transmitter Current: 3-4 Amps

98-4128

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WHITE SPUR-RGC EXPL.
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Compiled by: Chris Dauth Date: July 1997

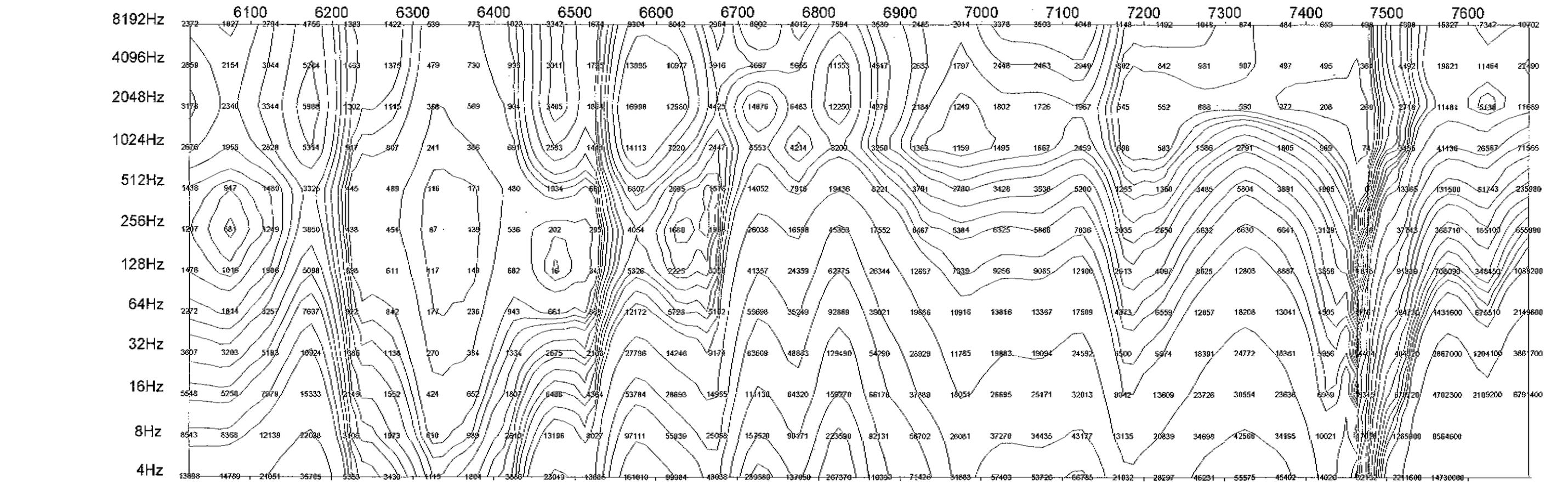
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**RGC Exploration Tasmania
White Spur Project**

**CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile**

**Figure 8
Line 60200mN**

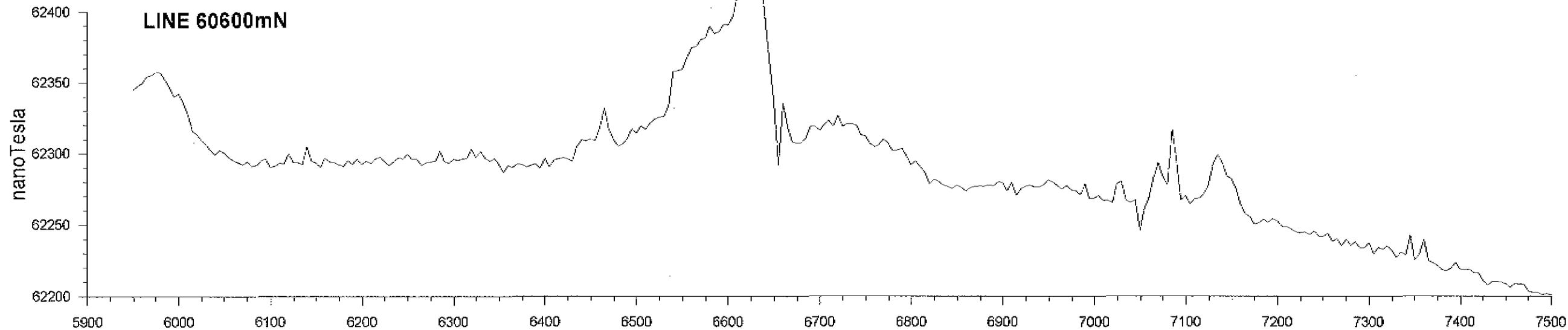


Survey Date: June/July 1997
 Survey Contractor: ZONGE Pty Ltd
 Receiver: GDP16
 Receiver Dipole: 50m
 Station Spacing: 50m E field 200m; H field
 Transmitter: ZONGE 30kVA
 Transmitter Length: 1.5km
 Transmitter Location: E-W Line 70000mN
 Transmitter Current: 3-4 Amps

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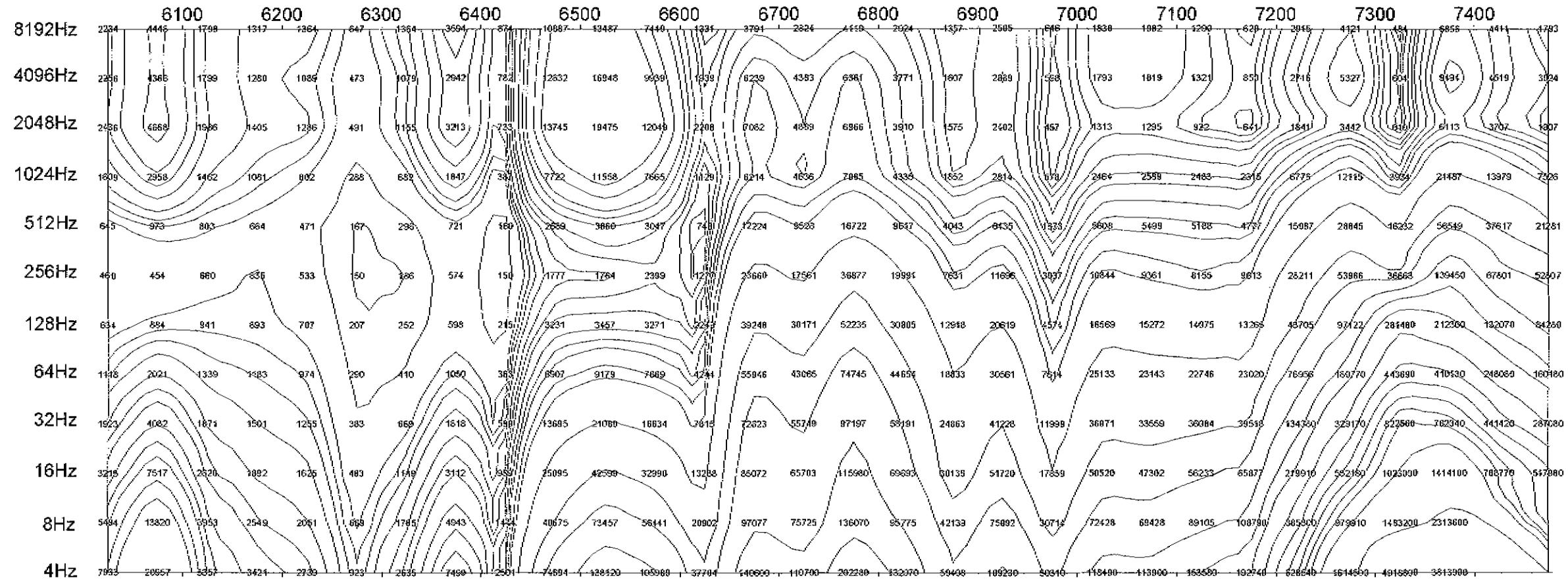
ANNUAL REPORT-EL 5/96
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 M VICARY Vol 3 of 3



**RGC Exploration Tasmania
White Spur Project**

**CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile**

**Figure 9
Line 60600mN**



427423

Survey Date: June/July 1997
 Survey Contractor: ZONGE Pty Ltd
 Receiver: GDP16
 Receiver Dipole: 50m
 Station Spacing: 50m E field 200m; H field
 Transmitter: ZONGE 30KVA
 Transmitter Length: 1.5km
 Transmitter Location: E-W Line 70000mN
 Transmitter Current: 3-4 Amps

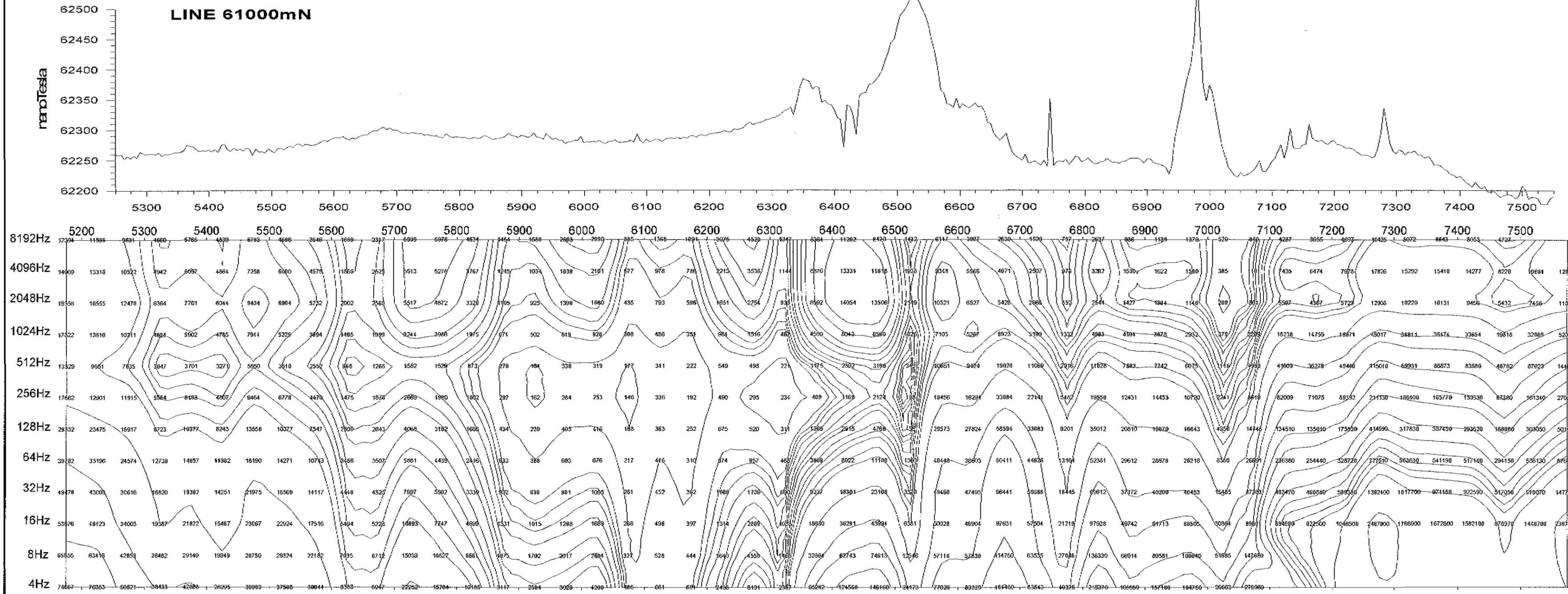
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 M VICARY Vol 3 of 3

RGC Exploration Tasmania
White Spur Project

CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile

Figure 10
Line 61000mN

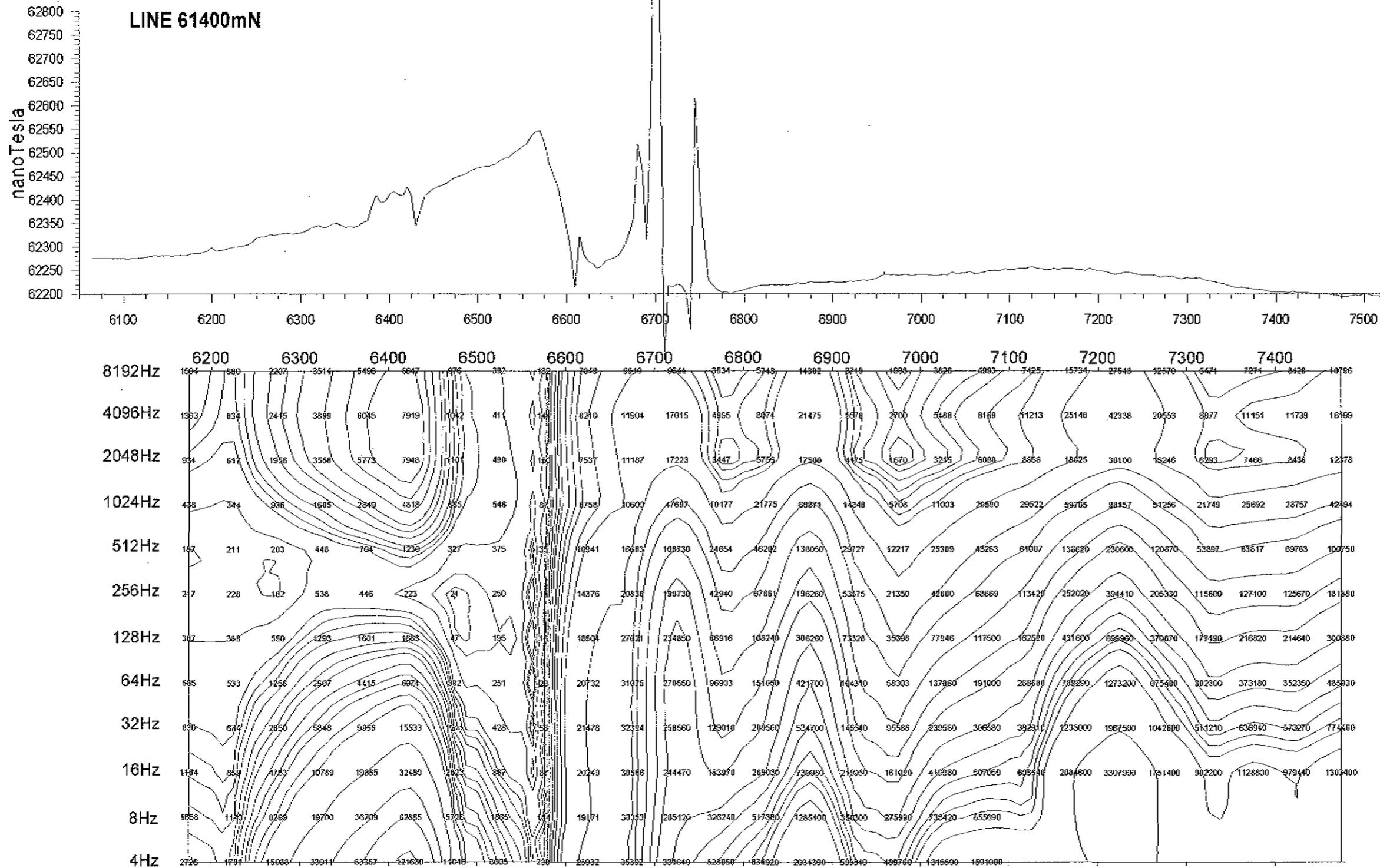


Survey Date: June/July 1997
Survey Contractor: ZONGE Pty Ltd
Receiver: GDP16
Receiver Dipole: 50m
Station Spacing: 50m E field 200m; H field
Transmitter: ZONGE 30kVA
Transmitter Length: 1.5km
Transmitter Location: E-W Line 70000mN
Transmitter Current: 3-4 Amps

427424

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**RGC Exploration Tasmania
White Spur Project**

**CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile**

**Figure 11
Line 61400mN**

427425

Survey Date: June/July 1997
 Survey Contractor: ZONGE Pty Ltd
 Receiver: GDP16
 Receiver Dipole: 50m
 Station Spacing: 50m E field 200m; H field
 Transmitter: ZONGE 30kVA
 Transmitter Length: 1.5km
 Transmitter Location: E-W Line 70000mN
 Transmitter Current: 3-4 Amps

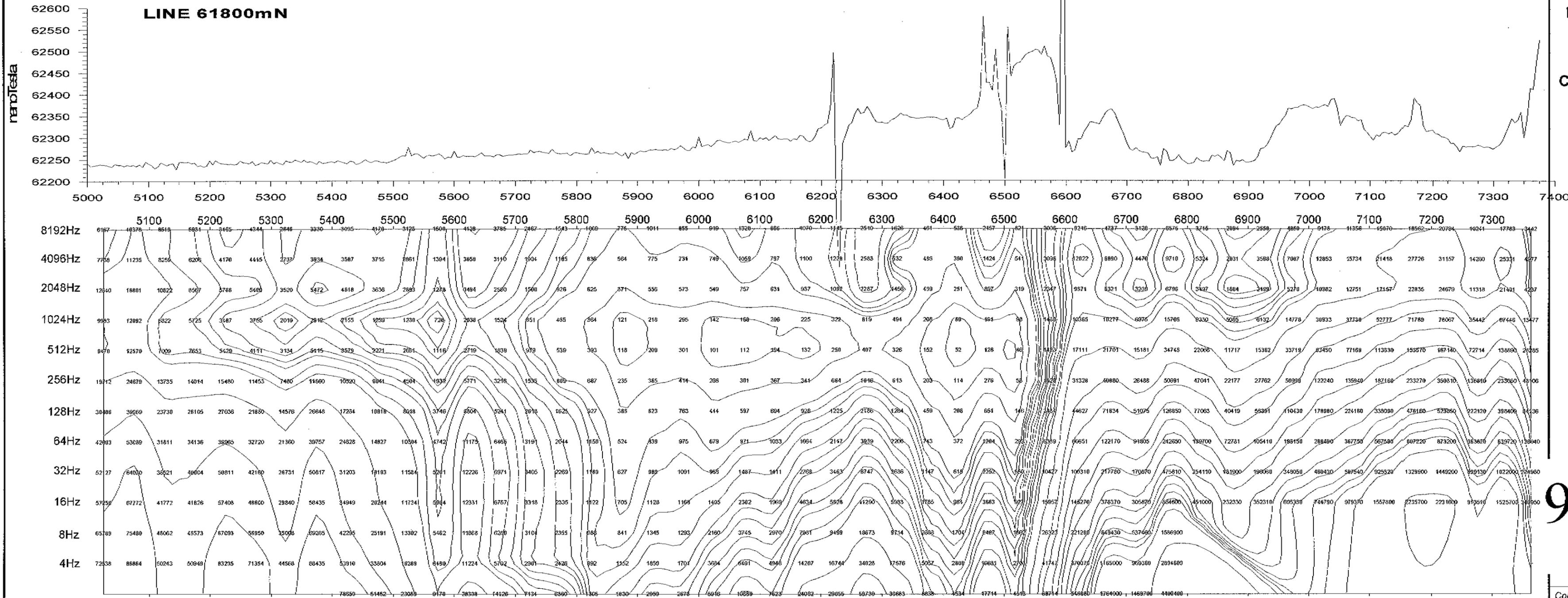
98-4128

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 WHITE SPUR-RGC EXPL.
 M VICARY VOL 3 of 3

RGC Exploration Tasmania
White Spur Project

CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile

Figure 12
Line 61800mN



Survey Date: June/July 1997
Survey Contractor: ZONGE Pty Ltd
Receiver: GDP16
Receiver Dipole: 50m
Station Spacing: 50m E field 200m; H field
Transmitter: ZONGE 30kVA
Transmitter Length: 1.5km
Transmitter Location: E-W Line 70000mN
Transmitter Current: 3-4 Amps

427426

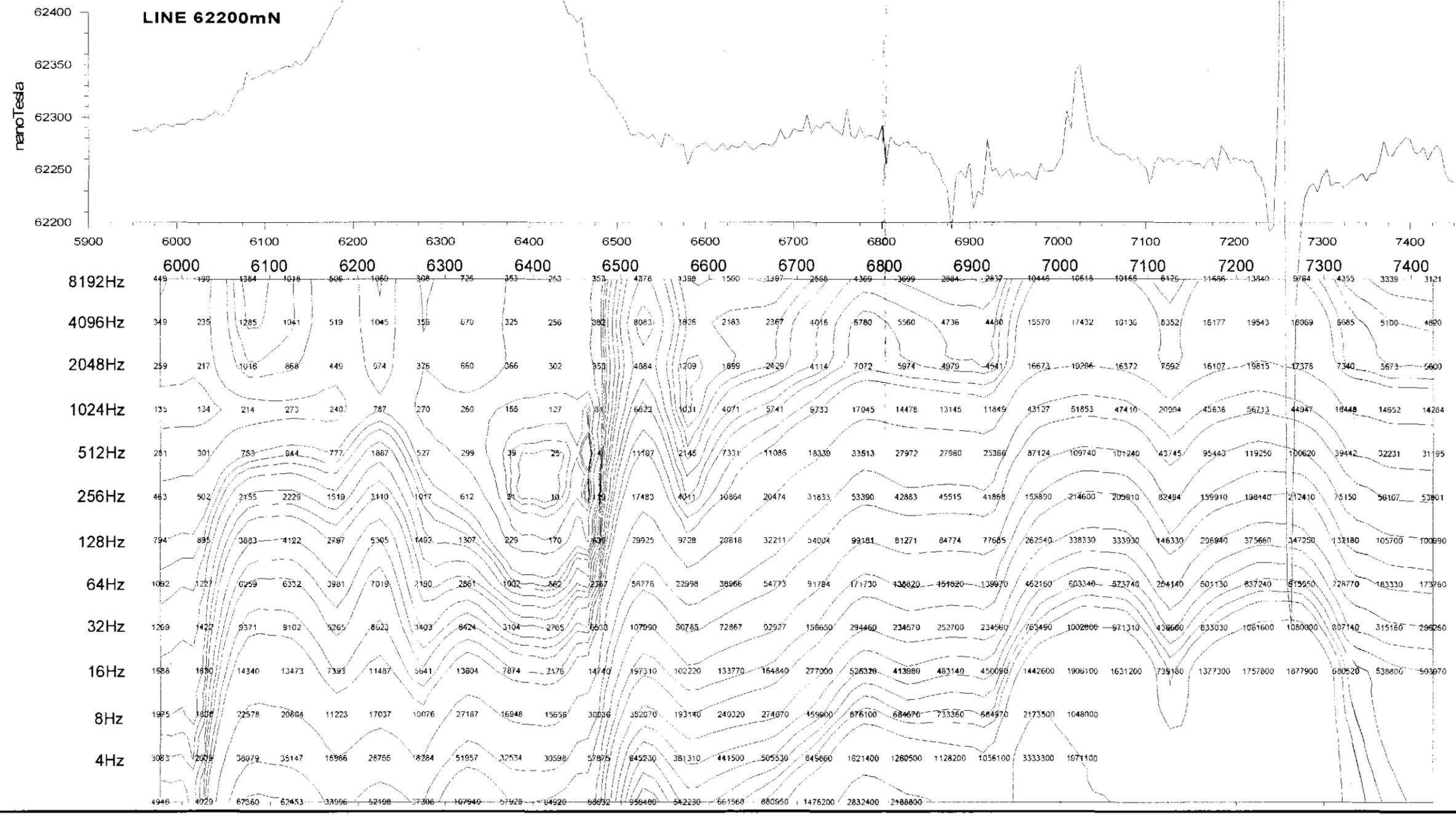
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**RGC Exploration Tasmania
White Spur Project**

**CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile**

**Figure 13
Line 62200mN**



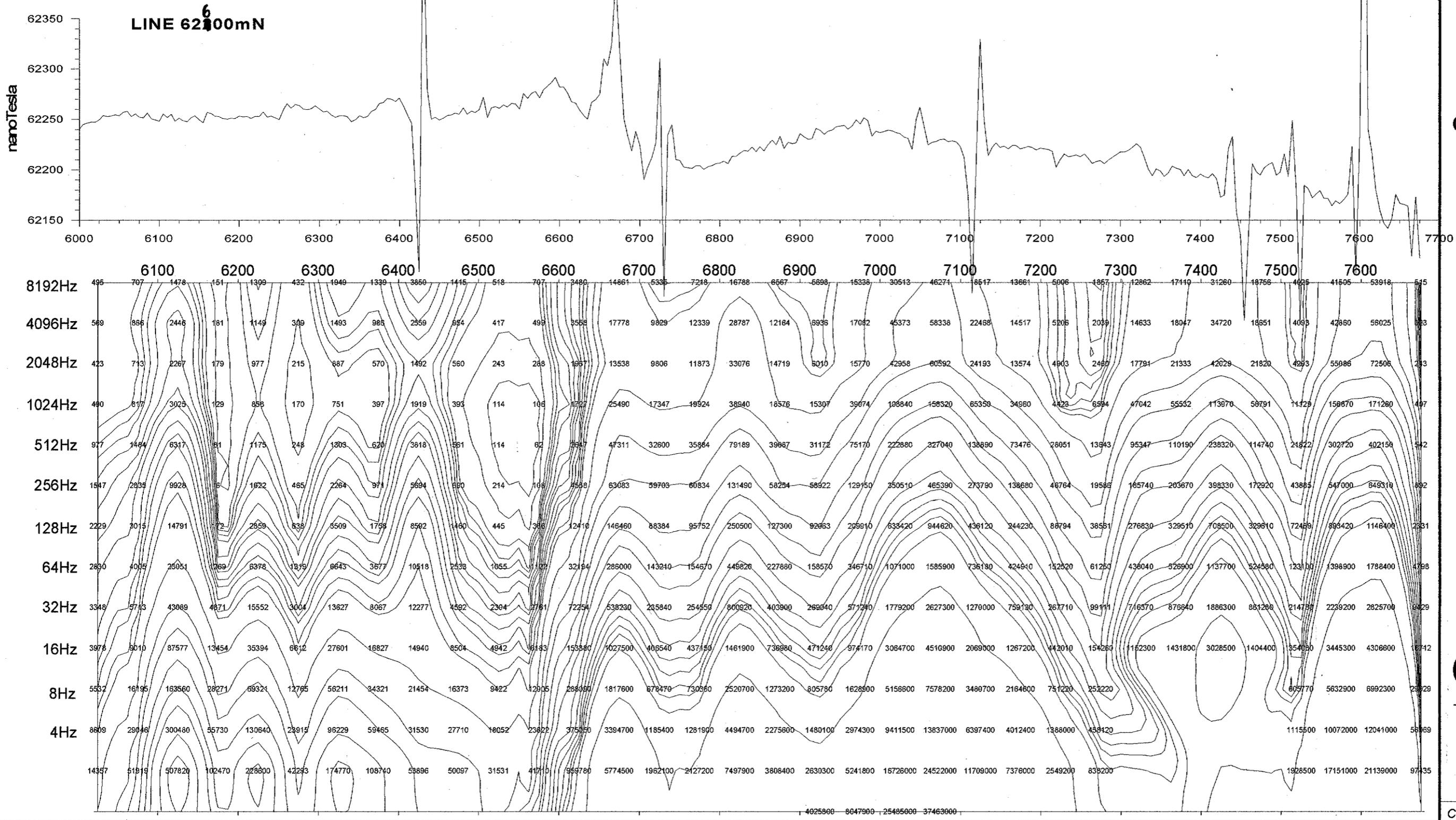
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 Survey Contractor: ZONGE Pty Ltd
 Receiver: GDP16
 Receiver Dipole: 50m
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 Transmitter: ZONGE 30kVA
 Transmitter Length: 1.5km
 Transmitter Location: E-W Line 70000mN
 Transmitter Current: 3-4 Amps

427427

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Compiled by: Chris Dauth Date: July 1997



**RGC Exploration Tasmania
White Spur Project**

**CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile**

**Figure 14
Line 62600mN**

427428

Survey Date: June/July 1997
 Survey Contractor: ZONGE Pty Ltd
 Receiver: GDP16
 Receiver Dipole: 50m
 Station Spacing: 50m E field 200m; H field
 Transmitter: ZONGE 30kVA
 Transmitter Length: 1.5km
 Transmitter Location: E-W Line 70000mN
 Transmitter Current: 3-4 Amps

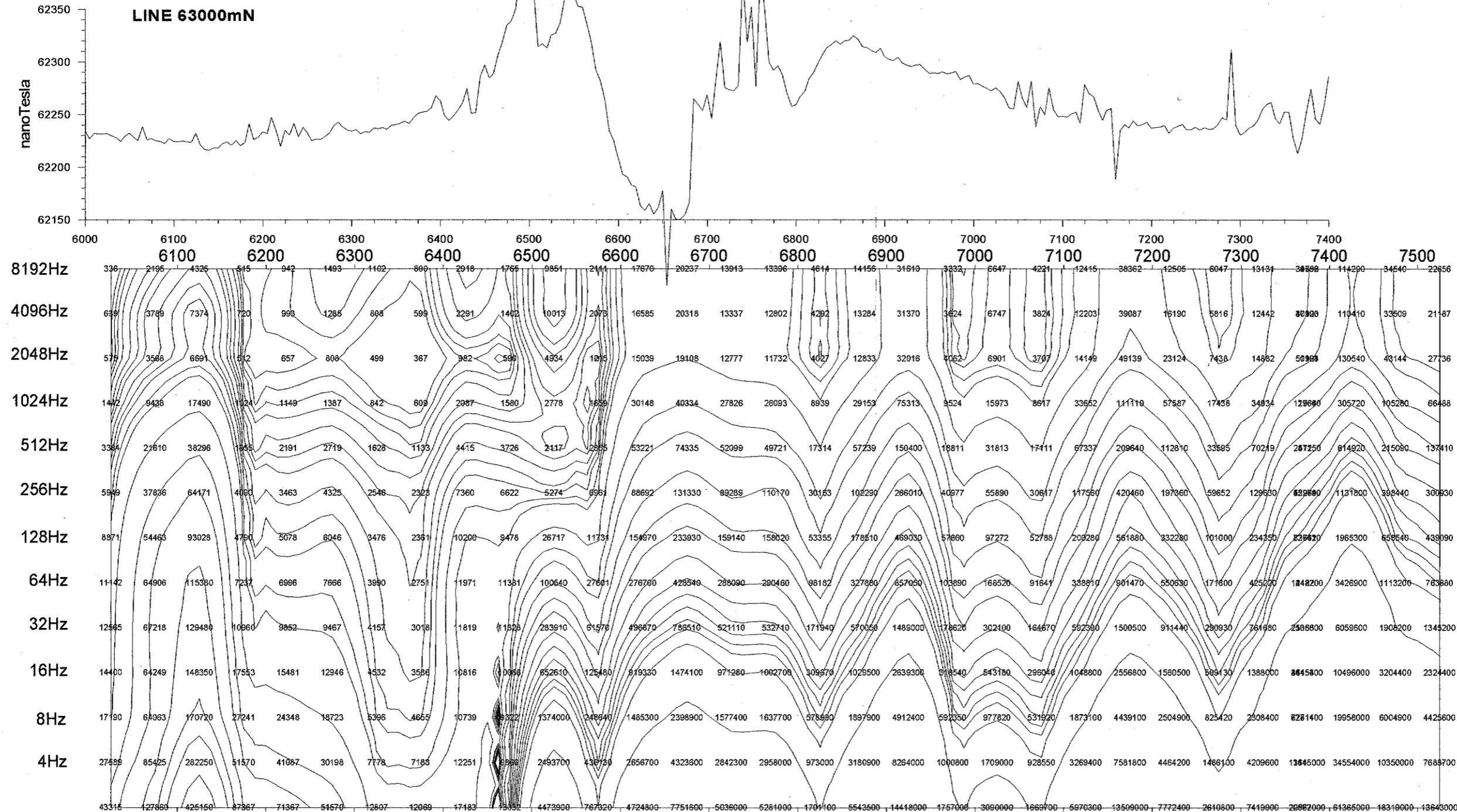
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**RGC Exploration Tasmania
White Spur Project**

**CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile**

**Figure 15
Line 63000mN**



Survey Date: June/July 1997
 Survey Contractor: ZONGE Pty Ltd
 Receiver: GDP16
 Receiver Dipole: 50m
 Station Spacing: 50m E field 200m; H field
 Transmitter: ZONGE 30kVA
 Transmitter Length: 1.5km
 Transmitter Location: E-W Line 70000mN
 Transmitter Current: 3-4 Amps

427429

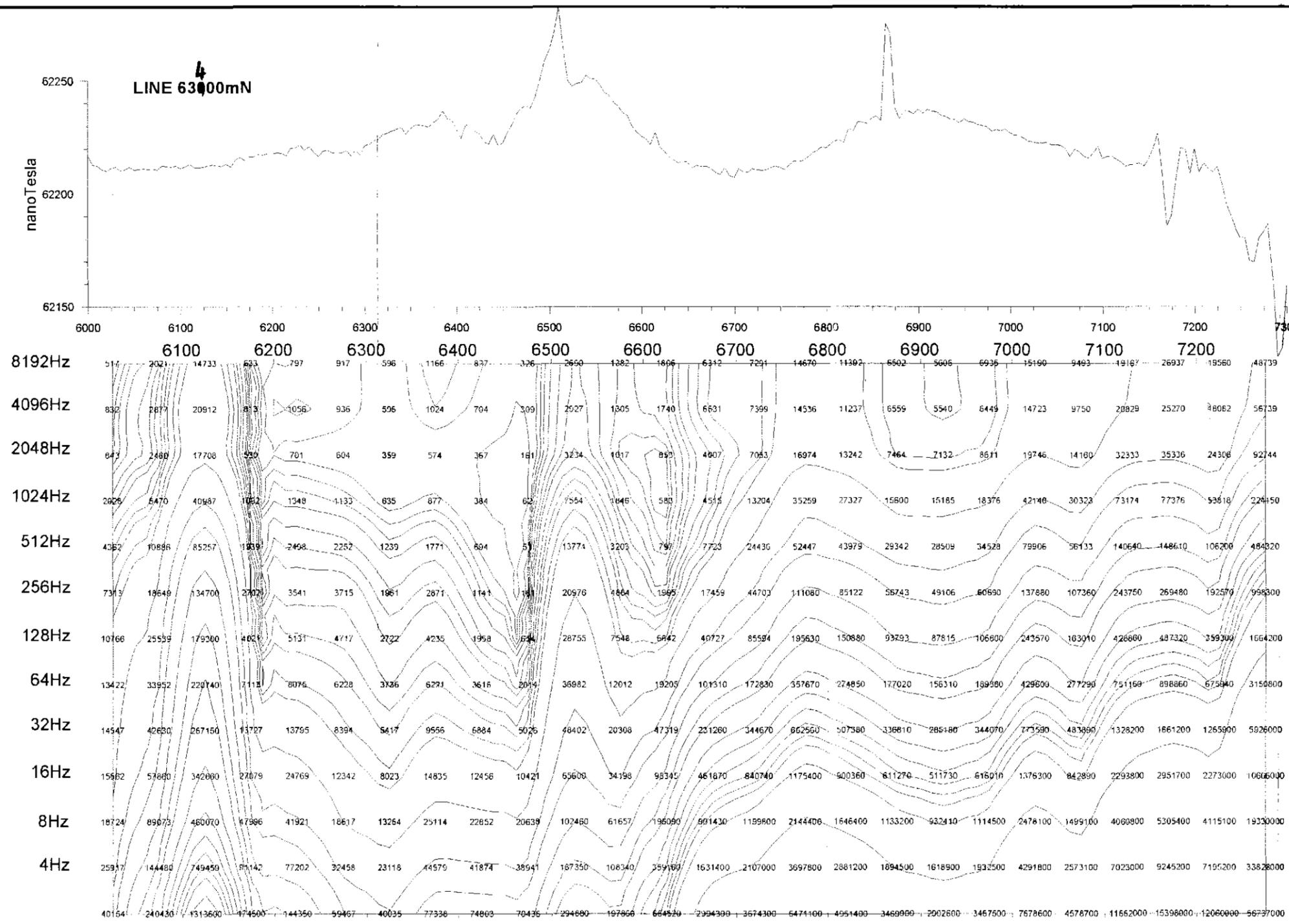
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RGC Exploration Tasmania
White Spur Project

CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile

Figure 16
Line 63400mN



427430

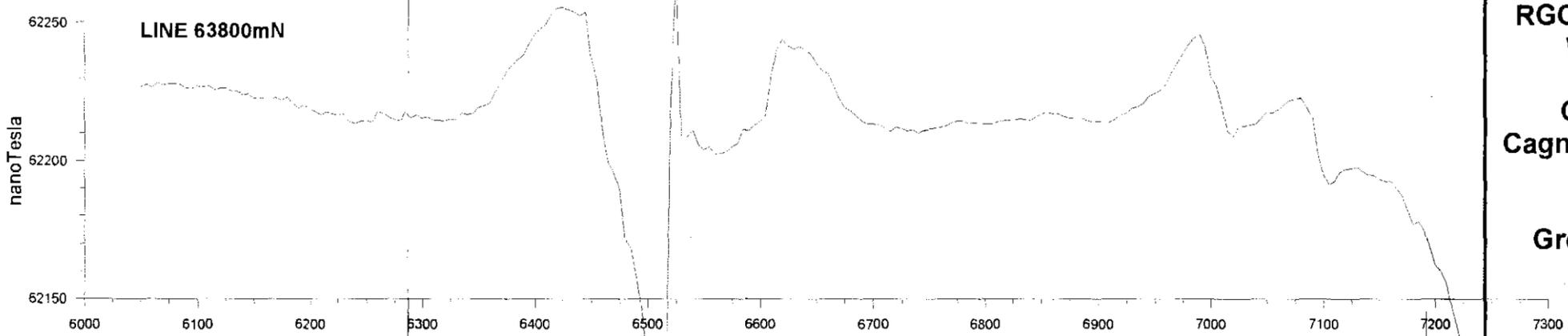
Survey Date: June/July 1997
Survey Contractor: ZONGE Pty Ltd
Receiver: GDP16
Receiver Dipole: 50m
Station Spacing: 50m E field 200m; H field
Transmitter: ZONGE 30kVA
Transmitter Length: 1.5km
Transmitter Location: E-W Line 70000mN
Transmitter Current: 3-4 Amps

98-4128

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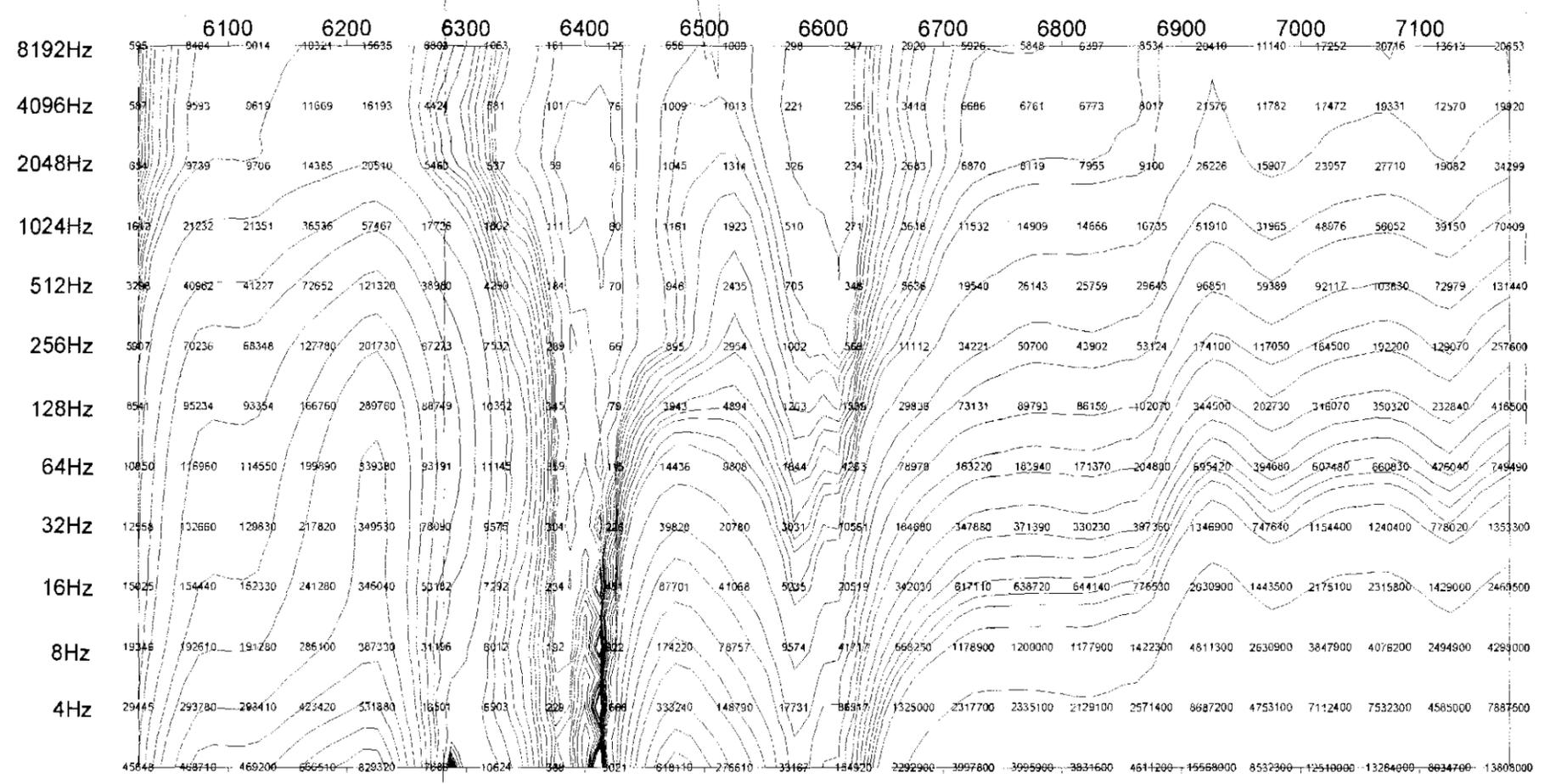
Compiled by: Chris Dauth Date: July 1997



**RGC Exploration Tasmania
White Spur Project**

**CSAMT Survey Data
Cagniard Resistivity (ohm.m)
Pseudo-Section
and
Ground Magnetic Profile**

**Figure 17
Line 63800mN**



427431

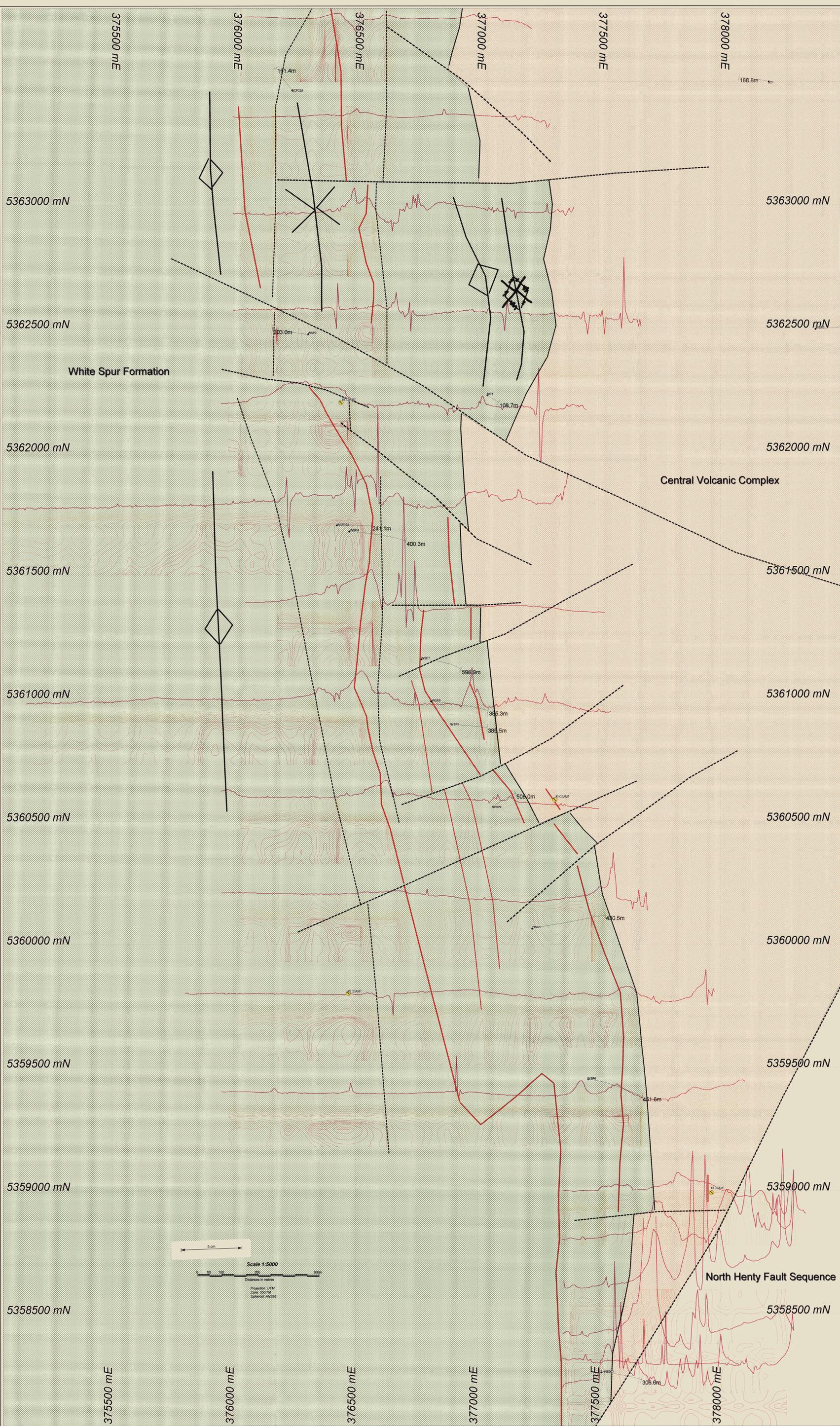
Survey Date: June/July 1997
 Survey Contractor: ZONGE Pty Ltd
 Receiver: GDP16
 Receiver Dipole: 50m
 Station Spacing: 50m E field 200m; H field
 Transmitter: ZONGE 30kVA
 Transmitter Length: 1.5km
 Transmitter Location: E-W Line 70000mN
 Transmitter Current: 3-4 Amps

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Interpretation Key

- Central Volcanic Complex
Lithologies
- White Spur Formation
Lithologies
- CSAMT conductor axis
- Inferred geological contact
- Inferred fault
- Inferred anticlinal axis
- Inferred synclinal axis
- Delineated drill target



427434

98-4128A

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WHITE SPUR-RGC EXPL.
M VICARY

APPENDIX 18

**White Spur Project Ground VLF and Ground Magnetic
Survey Results, 1997**

Chris Dauth

98-4128A (Appx 18 of 98-4128)

INTERNAL REPORT

**WHITE SPUR 23-17
2317-98-02**

EL 5/96

**White Spur Project
Ground VLF and Ground Magnetic
Survey Results, 1997**

Vol 1 of 1

HELD BY: Chris Dauth

MANAGER & OPERATOR: RGC Exploration Pty Ltd

AUTHOR(s): Chris Dauth

12 March, 1998

PROSPECTS: Anneliese

MAP SHEETS: 1:100,000: Sophia 1:250,000: Queenstown

**GEOGRAPHIC COORDS Min East: 377 080mE Max East: 378 300mE
Min North: 5 358 200mN Max North: 5 359 000mN**

COMMODITY(s): Cu, Pb, Zn, and Ag

KEY WORDS: base-metals, conductivity, EM, magnetics, magnetite, mineralisation, pyrite, pyrrhotite, resistivity, siltstone, VLF-EM

Distribution:

- o RGC Exploration Information Centre Reference:
- RGC Zeehan

SUMMARY

Very Low Frequency (VLF) electromagnetic and ground magnetic geophysical surveys were conducted at the White Spur Project, Tasmania, during 1998. The White Spur Project is currently being explored by RGC Exploration for its potential to host Rosebery style volcanic hosted massive sulphide (VHMS) mineralisation. Exploration is focused upon a geological contact, comprising the Lower Central Volcanic Sequence and the overlying White Spur Formation. This geological contact is believed to be the same position as the Rosebery, and Hercules VHMS deposits, located within 12km to the north.

The VLF and ground magnetic surveys were conducted to compliment existing or contemporaneously acquired IP, and CSAMT geophysical data with the aim of facilitating geological mapping, and for direct delineation of drill targets.

The surveys were conducted in May-August 1997 by RGC Exploration staff using the WADI VFL receiver coupled to the NW Cape VLF communications transmitter, and GEOMETRICS G-856 magnetometers. VLF data were collected at 12.5m station interval on lines spaced 400m apart. Ground magnetic data were collected at 5m station interval on lines spaced 400m apart. Survey lines were designed to traverse the White Spur Formation and Central Volcanic Sequence contact. Data have been integrated with VLF and ground magnetic data acquired during 1996 in the south of the tenement holding.

VLF data and diurnally corrected ground magnetic data have been compiled into spreadsheet format. Each survey line has been plotted in a stacked section and presented in this report overlain on the mapped geology. Interpretations and detailed discussions of the results are not presented in this report. The main aim of these relatively cheap geophysical techniques was to assist with interpretation of a combined geological and geophysical database. This report therefore only served to present results, and describe acquisition parameters.

VLF and magnetic data were both effective in delineating pyrrhotite rich black siltstone horizons within the White Spur Formation. Pyrrhotite forms both a highly magnetic and conductive target, thus responded well to both magnetic and electromagnetic techniques. No discrete drill targets are presented in this report as a result of the VLF or magnetic data alone. It is intended that these data be used in conjunction with other exploration techniques to generate drill targets.

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2. GEOLOGY	1
3. THEORETICAL CONSIDERATIONS	2
4. SURVEY PARAMETERS	2
5. RESULTS	3
6. RECOMMENDATIONS	4
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PLAN 2. White Spur Geology and Ground VLF Profiles 1:10,000

PLAN 3. White Spur Geology and Image of Frazer Filtered Out-Of-Phase VLF 1:10,000

1. INTRODUCTION

White Spur (EL 5/96), located approximately 14km south of Rosebury, Western Tasmania, is currently being explored by RGC Exploration for volcanic hosted massive sulphide (VHMS) deposits. This report presents the results of VLF electromagnetic and ground magnetic surveys.

White Spur has the potential to host Rosebery style Cu-Pb-Zn-Ag mineralisation. The North Henty Fault transects the tenement, and cross-cuts the N-S striking western White Spur Formation and the eastern Central Volcanic Complex of the Mt Read Volcanics. Field mapping and several ground and airborne geophysical surveys have been conducted to date.

The ground geophysical results presented in this report are designed to compliment and assist with interpretation of other geophysical datasets, as well as assisting with ongoing geological mapping. VLF data responds to conductive bodies within the earth, and thus should identify conductive black siltstone horizons, and conceptually accumulations of sulphide minerals. Ground magnetic data should assist with mapping subtle variations in magnetic character of different stratigraphic horizons.

2. GEOLOGY

This summary of the geological setting at White Spur is taken directly from a report by Dauth (1998) and is derived from the drill logs of diamond holes in the region, surface mapping results (extracted from the RGC database), the 1996-1997 annual report Vicary (1997), and pers. comm. with Vicary 1996-1998. Information is biased so as to provide relevant information for the interpretation of electrical and magnetic geophysical data.

The project area comprises a north-south striking package of lithologies of the Lower White Spur Formation, and the Upper Central Volcanic Complex (CVC). The contact transects approximately through the centre of the tenement area, and generally dips to the west.

The White Spur Formation typically comprises a sequence of interbedded black siltstones, ash volcaniclastic siltstones, quartz-feldspar volcaniclastic sandstones, and mass flows. Clasts of massive sulphide have been identified within the lower massflows of the White Spur Formation, and are interpreted to be eroded fragments of local sulphide accumulations carried downslope by massflows. The black siltstones are quite extensive on the western margin of the survey region and are observed in outcrop along road and water channel cuttings. Black siltstones contain inconsistent concentrations of pyrite and pyrrhotite. These sulphide minerals tend to exist in veinlets, bedding, and foliation planes. Measurements made on core samples indicate that electrical connection is often continuous where sulphide concentrations are high. The pyrrhotite is magnetic in character, and is an order of magnitude more conductive than the pyrite in observed drill core.

The CVC typically comprises felsic volcanic lavas and volcaniclastic sediments with only minor siltstones. Intrusive rhyolites and thin mafic dykes/sills have also been mapped within the CVC. A summary plan of the geology at the White Spur Project is presented in Plan 1.

Several alteration zones have been identified at White Spur. Alteration types encountered have been consistent with those commonly observed proximal and distal to VHMS mineralisation. These include sericite-silica-pyrite, and a regional chlorite-albite? alteration. In addition, pyrrhotite rich black siltstones are observed at White Spur. The significance of the pyrrhotite (if any) as an alteration mineral is not currently understood, however it is an important

sulphide mineral to identify when conducting electrical and magnetic geophysics due to its high conductance and high magnetic susceptibility.

Drill holes to date have only intersected minor base metals mineralisation. The most successful results were achieved in WSP5 which intersected disseminated and microveins of sphalerite and galena over approximately 20m at 300m depth.

The main structural elements at White Spur include the NE-SW oriented North Henty Fault in the south of the tenement. A number of east-west oriented faults that displace the White Spur-CVC contact by distances up to, and in the order of 500m have been delineated by either field mapping or in geophysical data. These faults may be growth faults active during mineralisation, and could have conceptually controlled mineralisation by acting as fluid conduits.

3. THEORETICAL CONSIDERATIONS

These comments are taken directly from a report by Dauth (1996) on a VLF-EM survey conducted in the south of the White Spur Project.

VLF (Very Low Frequency) electromagnetics is an inductive exploration method which is based on measuring variations in components of EM fields set up by communications stations operating in the frequency range 15 to 25 kHz. The North West Cape communications antennae in Western Australia (operating at 19.8 kHz) was used for this survey.

The survey is relatively inexpensive (similar to ground magnetics acquisition) and provides a response that is dependent on the conductivity and thickness of subsurface conductors (such as a VHMS deposit containing conductive sulphides), the host rock resistivity, and overburden thickness. The response will also depend on the geometry of the subsurface conductor with respect to the location of the communications transmitter. Ideally for maximum response (best coupling of the conductor with the primary magnetic field), the geological strike should be directed towards the transmitter.

The WADI receiver was used for the 1997 survey, and the SCINTREX VLF 3/4 receiver was used for the survey in 1996. Both instruments measured two parameters, the in-phase and out of phase vertical components of the magnetic field oscillating at the frequency of the transmitter. The SCINTREX VLF ¾ receiver also measured the total horizontal field, however temporal variations in the strength of the total field make these measurements unreliable. Interpretation is rather qualitative due to the complex nature of the anomaly shape in regions with a variable overburden cover. VLF anomalies result from a wider range of conductivities than for other lower frequency EM survey techniques. Targets such as shear zones and disseminated sulphides do produce a VLF anomaly. The depth of investigation with the VLF technique depends on the ground conductivity. The higher the conductivity, the lower the depth of investigation. Assuming a host rock resistivity of 3000 ohm.m, the effective depth of investigation will be approximately 75m. Where conductors (such as black siltstone horizons) are encountered, then the depth of investigation may be as little as 5-10m.

4. SURVEY PARAMETERS

The ground magnetic data were acquired using GEMETRICS G-856 memory magnetometers owned by RGC Exploration. A roving field magnetometer was used to measure spatial variations in the earth's magnetic field at 5m station interval along 400m east-west oriented

lines. A stationary base station magnetometer was positioned within the survey region measuring at 10-20 second intervals recording the temporal (time dependent) changes in the earth's magnetic field. These temporal measurements (otherwise known as diurnal recordings) were used to correct the field data. All data presented in this report have been corrected for diurnal variations.

The VLF-EM data were acquired at 12.5m station interval along 400m east-west oriented lines. Both in-phase and out-of-phase measurements of the vertical magnetic field component were recorded at the frequency of the NW Cape communications transmitter, 19.8kHz. The VFL sensor was aligned in the orientation of the traverse line.

Location and extents of the topographically corrected survey lines traversed in the surveys are presented in Plans 1, 2, and 3.

5. RESULTS

Results from the ground magnetic and VLF-EM surveys are presented in Plans 1, 2, and 3. Digital data including survey data acquired in 1996 are provided on floppy disk in the sleeve of this report. A detailed discussion and interpretation of results is not included in this report as this was not the aim of the survey. The survey data were acquired with the aim of assisting interpretation of other exploration data.

Plan 1 presents profiles of the ground magnetic data overlain on the mapped geology. Several short wavelength high amplitude dipolar spikes observed throughout the survey (especially in the northern extent) are of a dubious nature. These are interpreted as either cultural features (old logging chains), lightning strikes, or instrument malfunction.

Results generally correlate well with known geology in places. High amplitude erratic magnetic anomalies are coincident with the ultramafics within the North Henty Fault Sequence. Subdued magnetic response is characteristic of the Central Volcanic Complex in the east. Variable magnetic response is observed within the western White Spur Formation. High amplitude anomalies (50-200nT) correlate in places with black siltstone horizons. Comparing these results with drill-hole geology and magnetic susceptibility information confirms that high amplitude magnetic anomalies are associated with pyrrhotite rich black siltstone stratigraphic horizons.

The VLF-EM data are presented as stacked profiles of the in-phase and out-of-phase components in Plan 2. It should be kept in mind that conductors result in a positive to negative (east-west) cross-over rather than a single peak. Although relatively noisy in places (interpreted as a consequence of non-ideal transmitter-geology geometry), the data do show a correlation between the location of black siltstone horizons (conductors), and cross-overs. A simple filter known as a Frazer filter has been applied to the data to produce a positive peak directly over a conductor. Data were then gridded and displayed as the image in Plan 3. The Frazer filter operator used 10 weights, and is actually a simple averaged horizontal difference:

$$\text{ie} \quad x_{5.5} = x_1 + x_2 + x_3 + x_4 + x_5 - (x_6 + x_7 + x_8 + x_9 + x_{10})$$

The image of the Frazer filtered out-of-phase component (Plan 3) exhibits good correlation between black siltstone horizons and conductive axis (displaced in red). The image provides strong evidence for several significant east-west oriented displacement faults that could be interpreted as growth fault structures.

6. RECOMMENDATIONS

Integration of the ground magnetic and VLF-EM survey data results with all existing geophysical and geological data should be conducted to enable a composite interpretation. This is currently under progress in an interpretation report on a CSAMT geophysical survey also conducted in 1997.

Both datasets provide a relatively inexpensive method for mapping two different physical properties of lithologies encountered in the region. Although not necessarily of great application on their own, these techniques do assist with interpretation of additional geophysical and geological databases. Further application in similar terrains is recommended.

7. REFERENCES

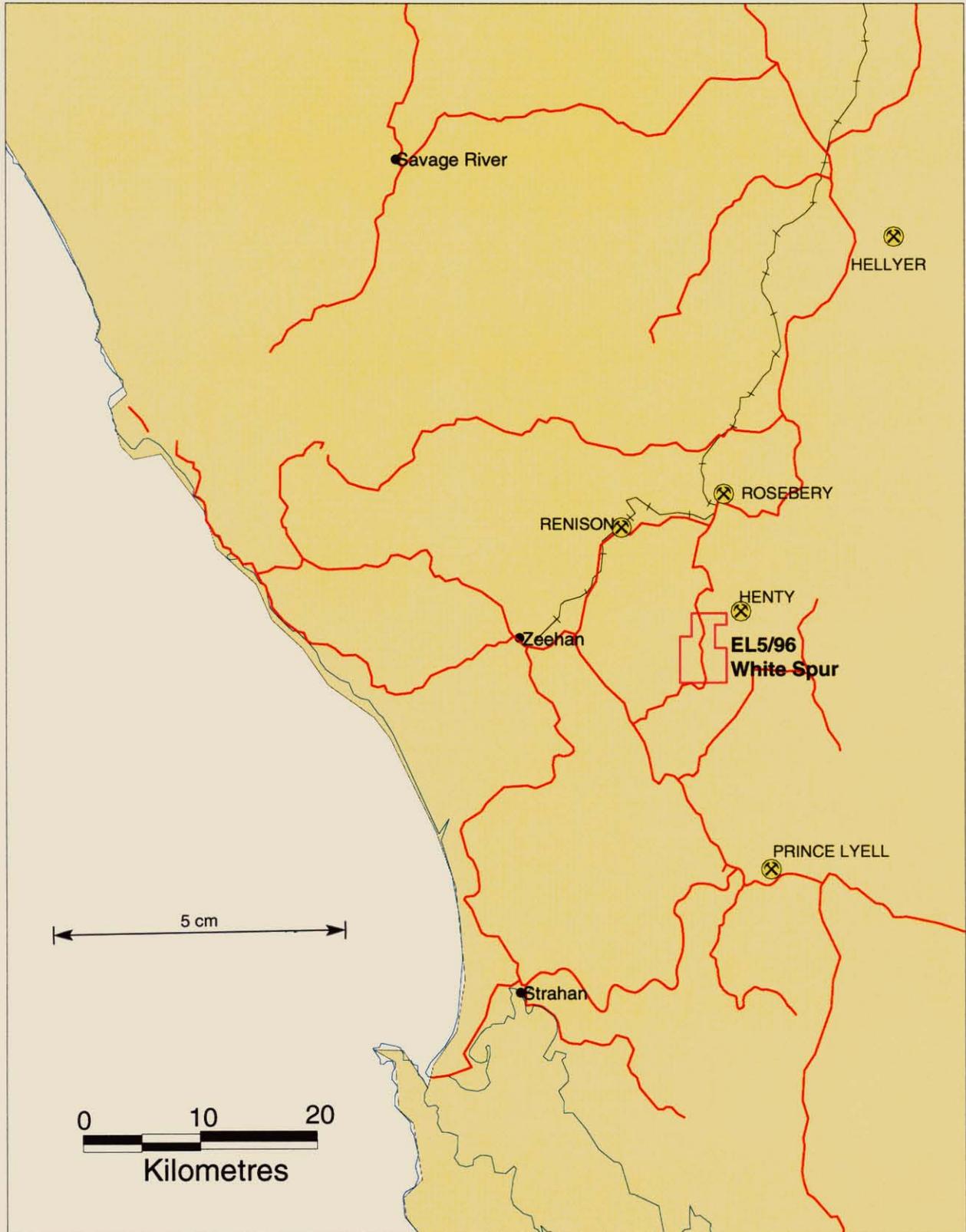
Dauth, C., 1998, EL 5/96 CSAMT Survey Results; RGC Exploration Internal Report 23179801

Dauth, C., 1996, EL 5/96 Interpretation of Induced Polarisation, VLF-EM, and Ground Magnetic Geophysical Data, White Spur, Tasmania 1996-97; RGC Internal Report 23179601

Vicary, M. J., 1997, EL 5/96 White Spur Annual Report 1996-1997; RGC Exploration Annual Report to Tasmanian Mines Department



Figure 1. White Spur Project Location Plan



Plan 1.
Geology and
Ground Magnetic Profiles
White Spur Project
Tasmania

Geological Legend

- Cyx
Crystal rich volcanics sandstone
- Cym
Rhyolitic-dacitic volcanics sandstone
- Cys
Units of bedded siltstone, sandstone
- Cyr
Quartz - feldspar phryic rhyolitic volcanics sediments
- Cydv
Feldspar - (quartz) phryic dacite volcanics sediments
- Cyg
Dominantly greywacke & mudstone with some interbedded vitric tuff, crystal tuff & crystal-lithic tuff
- Cya
Ashy siltstone
- Cy
Undifferentiated massflows, sandstones & black siltstones
- Cyb
Undifferentiated Lower White Spur Formation
- Cymf
Rhyolitic-dacitic massflows, commonly graded
- Ccs
Units of bedded siltstone, sandstone, tuff & agglomerate
- Cp
Quartz feldspar porphyry
- Cys
Black siltstone
- Sulphide
Sulphide Lenses
- Ccl
Mainly felsic feldspar phryic lava and intrusives; massive to flow banded or autobrecciated, with rare columnar jointing
- Cps
Spherulitic dacitic intrusive
- Ccv
Mainly felsic pyroclastic rocks, dominantly feldspar phryic, including pumice bearing tuff & breccia, crystal vitric tuff, vitric tuff & minor shale & sandstone
- Cb
Basalt, Henty Dyke Swarm

Ground Magnetic Data

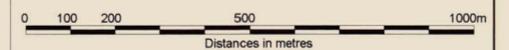
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 Station Spacing: 5m
 Corrections: Diurnal
 Sensor Height: 1.5m
 Profile Colour: Magenta
 Base Level: 62300nT
 Vertical Scale: 1cm=100nT

98-4128

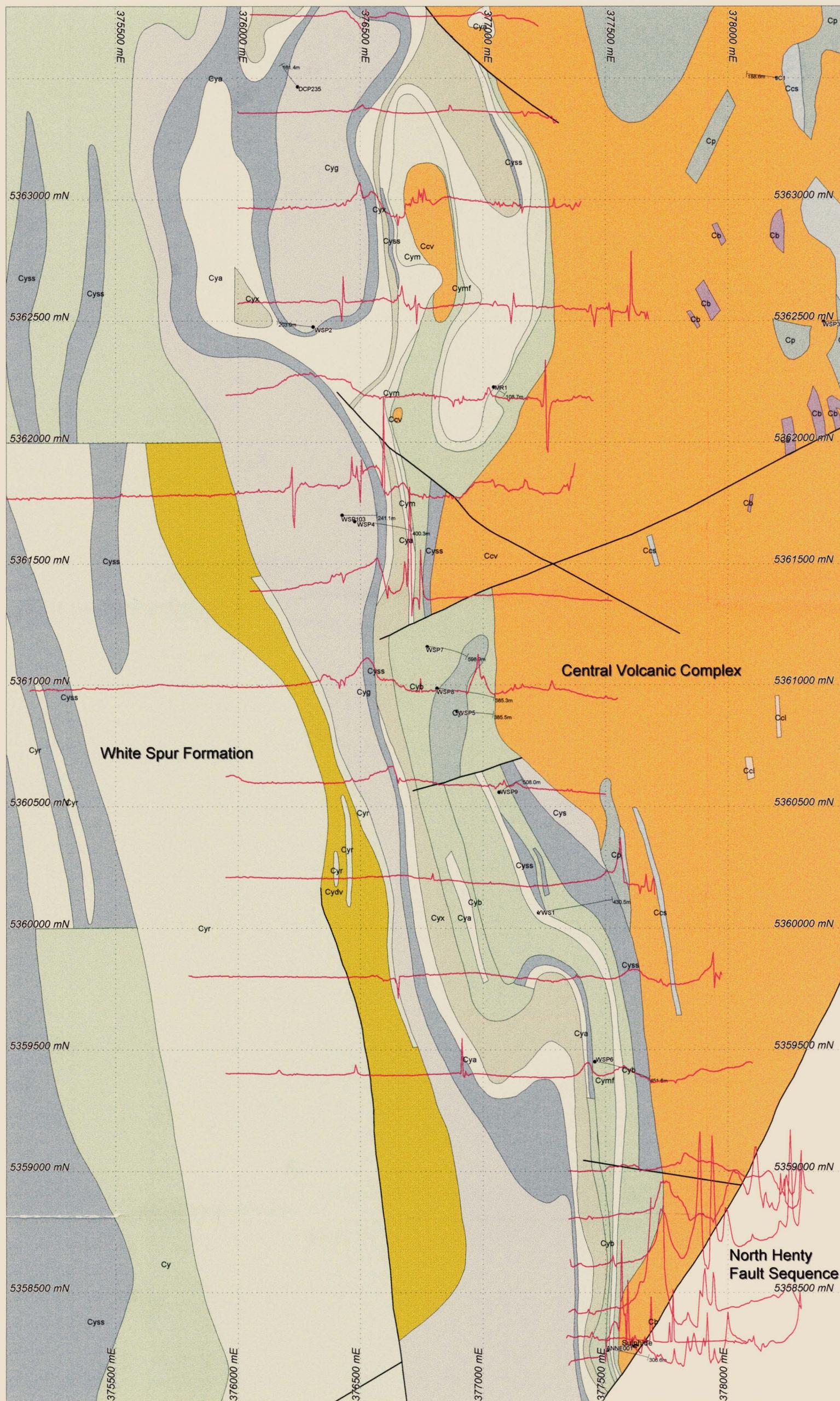
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5 cm

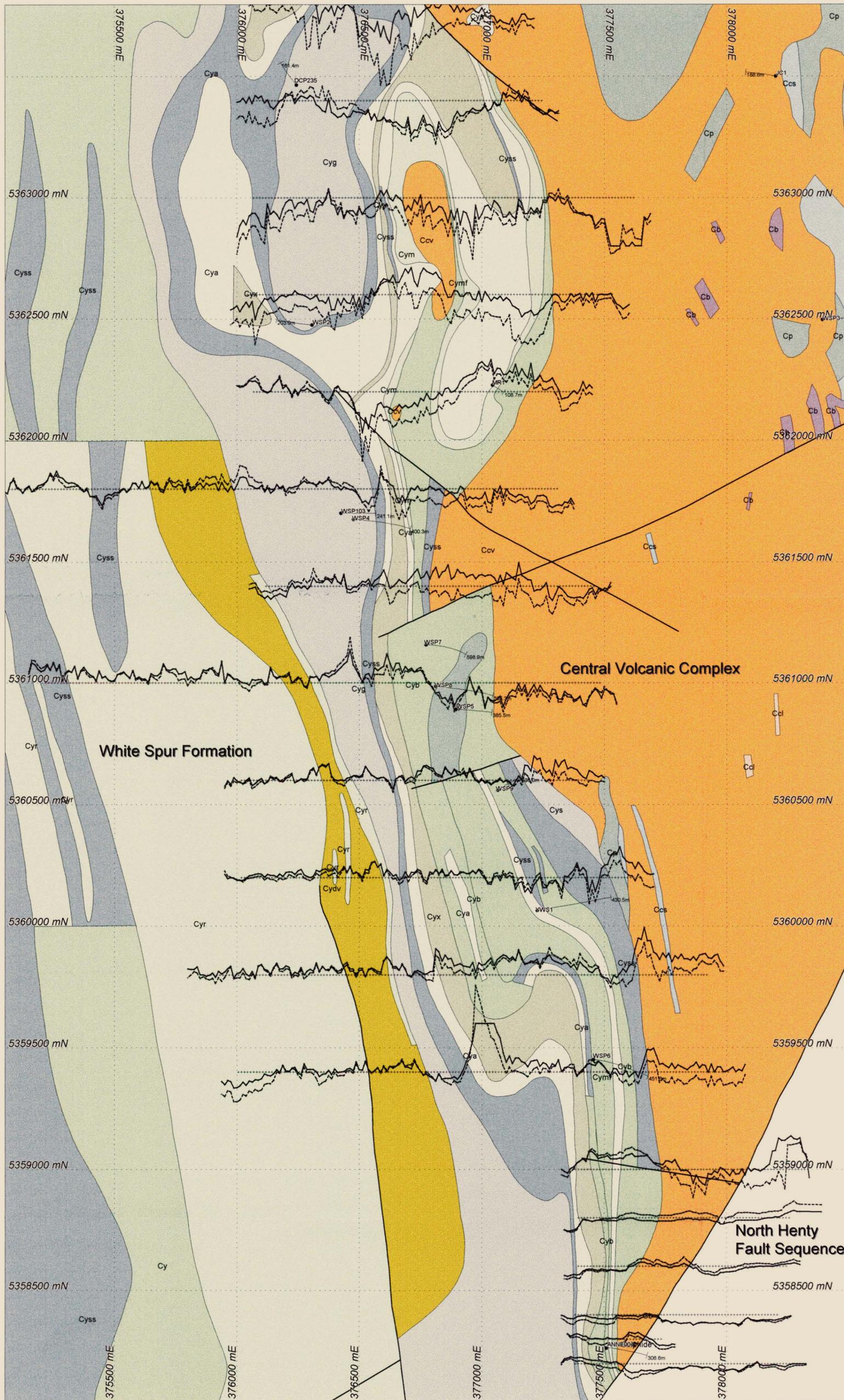
Scale 1:10000



Projection: UTM
 Zone: 55UTM
 Spheroid: ANS66



**Plan 2.
Geology and
Ground VLF Profiles
White Spur Project
Tasmania**



Geological Legend

- Cyx
Crystal rich volcanics sandstone
- Cym
Rhyolitic-dacitic volcanics sandstone
- Cys
Units of bedded siltstone, sandstone
- Cyr
Quartz - feldspar phryic rhyolitic volcanics sediments
- Cydv
Feldspar - (quartz) phryic dacite volcanics sediments
- Cyg
Dominantly greywacke & mudstone with some interbedded vitric tuff, crystal tuff & crystal-lithic tuff
- Cysb
Ashy siltstone
- Cy
Undifferentiated massflows, sandstones & black siltstones
- Cyb
Undifferentiated Lower White Spur Formation
- Cymf
Rhyolitic-dacitic massflows, commonly graded
- Ccs
Units of bedded siltstone, sandstone, tuff & agglomerate
- Cp
Quartz feldspar porphyry
- Cysb
Black siltstone
- Sulphide
Sulphide Lenses
- Ccl
Mainly felsic felspar phryic lava and intrusives; massive to flow banded or auto-brecciated, with rare columnar jointing
- Cps
Spherulitic dacite intrusive
- Ccv
Mainly felsic pyroclastic rocks, dominantly felspar phryic, including pumice bearing tuff & breccia, crystal tuff, vitric tuff & minor shale & sandstone
- Cb
Basalt, Henry Dyke Swarm

Ground VLF Data

Receiver: SCINTREX VLF and WADI
Transmitter: NW Cape 19.8 kHz
Station Spacing: 12.5m
Corrections: None Applied
Vertical Scale: 1cm=100 units

In-Phase Component
 Out-of-Phase Component

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M VICARY Vol 3 of 3

427444

5 cm

Scale 1:10000

0 100 200 500 1000m
Distances in metres

Projection: UTM
Zone: 55UTM
Spheroid: ANS66



**Plan 3.
Geology and
Image of Frazer
Filtered Out of Phase
VLF Data
White Spur Project
Tasmania**

Geological Legend

- Cyx**
Crystal rich volcanics sandstone
- Cym**
Rhyolitic-dacitic volcanics sandstone
- Cys**
Units of bedded siltstone, sandstone
- Cyr**
Quartz - feldspar phryic rhyolitic volcanics sediments
- Cydv**
Feldspar - (quartz) phryic dacite volcanics sediments
- Cyg**
Dominantly greywacke & mudstone with some interbedded vitric tuff, crystal tuff & crystal-lithic tuff
- Cya**
Ashy siltstone
- Cy**
Undifferentiated massflows, sandstones & black siltstones
- Cyb**
Undifferentiated Lower White Spur Formation
- Cymf**
Rhyolitic-dacitic massflows, commonly graded
- Ccs**
Units of bedded siltstone, sandstone, tuff & agglomerate
- Cp**
Quartz feldspar porphyry
- Cysb**
Black siltstone
- Sulphide**
Sulphide Lenses
- Ccl**
Mainly felsic felspar phryic lava and intrusives; massive to flow banded or auto-brecciated, with rare columnar jointing
- Cps**
Spherulitic dacitic intrusive
- Ccv**
Mainly felsic pyroclastic rocks, dominantly felspar phryic, including pumice bearing tuff & breccia, crystal vitric tuff, vitric tuff & minor shale & sandstone
- Cb**
Basalt, Henty Dyke Swarm

Ground VLF Data

Receiver: SCINTREX VLF and WADI
Transmitter: NW Cape 19.8 kHz
Station Spacing: 12.5m
Corrections: None Applied

Image Parameters

VLF Component: Out of Phase
Processing: 10 point Frazer Filter
Grid Cell Size: 100m
Gridding Algorithm: Min. Curve Assymetrical

98-4128

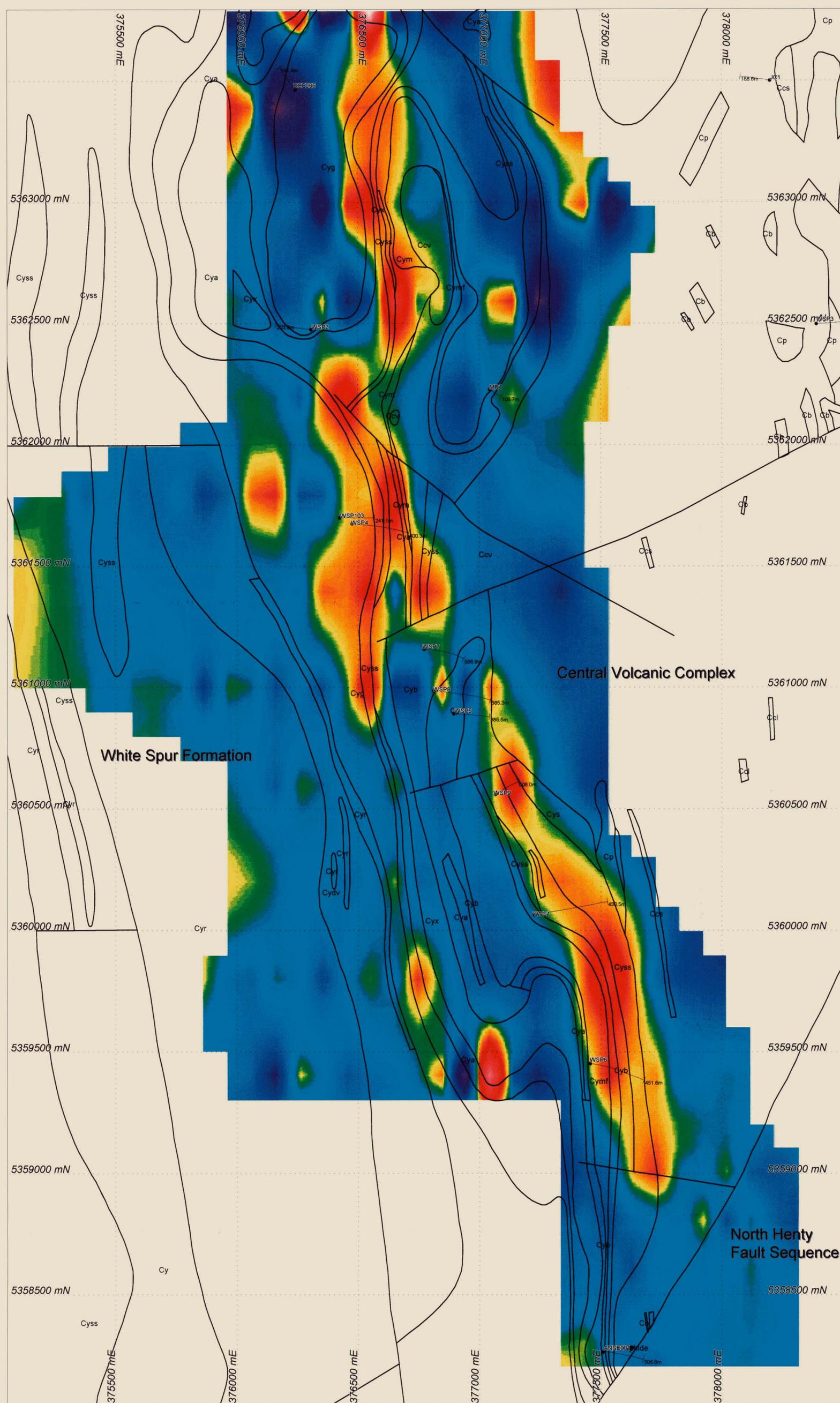
ANNUAL REPORT-EL 5/96
WHITE SPUR-RGC EXPL. Vol 3 of 3
M VICARY

5 cm

Scale 1:10000



Distances in metres
Projection: UTM
Zone: 55UTM
Spheroid: ANS66



APPENDIX 19

Down Hole Magnetic Susceptibility Results

Chris Dauth