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GOLDFIELDS EXPLORATION

MICROFILMED
FICHE No.015689-92

ACN 008 560 978

2000-2001
Annual Report

Tasmanian Gold Project

Red Hills

EL 29/94

Volume 1 of 1
Text and Appendices 1 to 6

MINERAL RESOURCES
FILE REF: EL29/94 P12
24 SEP 2001
DOC. REF:
OFFICER | FOR ACTION | FOR INFO
See Folio 62
RESUBMIT TO | DATE

HELD BY: **Plutonic Resources /Homestake Exploration**

MANAGER & OPERATOR: **Goldfields Exploration Pty Ltd**

AUTHOR(s): Tim Callaghan
Michael Vicary

20, September, 2001

PROSPECTS: Red Hills

MAP SHEETS: **1:250,000:** **1:100,000: Sophia**

GEOGRAPHIC COORDS

Min East:	**381000**	**Max East:**	**384000**
Min North:	**5360000**	**Max North:**	**5368000**

COMMODITY(s): Au, Basemetals

KEY WORDS: Tyndall Group, Central Volcanic Sequence,

Distribution:

- **Goldfields Exploration Information Centre Reference:**
- **Goldfields Exploration - Zeehan:**
- **Mineral Resources Tasmania:**
- **Homestake Exploration - Queensland:**

Annual Report - Tasmanian Gold Project - Red Hills - EL 29/1994
Goldfields Exploration Proprietary Limited*
Callaghan, T.; Vicary, M.J. EL29/1994

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SUMMARY

The Red Hills EI29/94 is a joint venture partnership between Goldfields Exploration and Homestake Exploration. Homestake became owners of the EL after a take over of Plutonic Resources. Goldfields became operators of the EL on 4th February 2000.

Three principal mineralisation styles have been identified at Red Hills:

1. Stratabound gold/polymetallic VHMS
2. Disseminated and vein Cu-Au-Mt.
3. Silica-carbonate alteration and Qtz-Carb-Au-basemetal veining.

Work completed since September 2000 includes completion of C-horizon soil sampling, drilling of diamond drill hole RH20 and a review of the stratabound gold/polymetallic VHMS mineralisation.

C-horizon soil sampling by Plutonic Resources was successful in outlining the host sequence for the VHMS-Au mineralisation as well as a prominent (>1g/t Au) soil Au anomaly associated with silica-carbonate alteration and Qtz-Carb-Au veining. This anomaly was tested with drill hole RH20. Only low grade gold mineralisation was identified associated with pervasive silica-carbonate alteration and late quartz carbonate veins. No further work is recommended for this area.

The review of the stratabound gold/polymetallic VHMS mineralisation suggests it remains open at depth and has the potential to host economic mineralisation accessible from the Henty Gold Mine workings. A wide spaced deep drilling of this horizon is recommended.

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1 INTRODUCTION

EL29/94 – Red Hills is a Joint Venture between Goldfields Exploration Pty and Plutonic Operations Limited. The EL was granted to Plutonic on 22 October 1994. As at 31/12/1999 Plutonic had spent $263765 on exploration. The Joint Venture Agreement was signed on 4 February 2000. It is a condition of the agreement that Goldfields must spend $600,000 by at least the fifth anniversary of the commencement date to earn 60% interest.

On the 21 October 2000, there was a compulsory 50% relinquishment of the Red Hills EL (Vicary and Callaghan, 2000).

The Red Hills EL has a current area of 8 square kilometres. The lease will expire on 21 October 2004.

1.1 Location and Access

EL29/94 – Red Hills is located adjacent to the eastern side of the Henty Mine Lease (7M/91). The Henty Mine Lease is accessed via the Howards Road and the Anthony Road. The major access to Red Hills is via a 4WD track that commences within the Henty Mine Lease (Fig 1). Additional foot access to the eastern parts of the EL can be made from the Anthony Road.

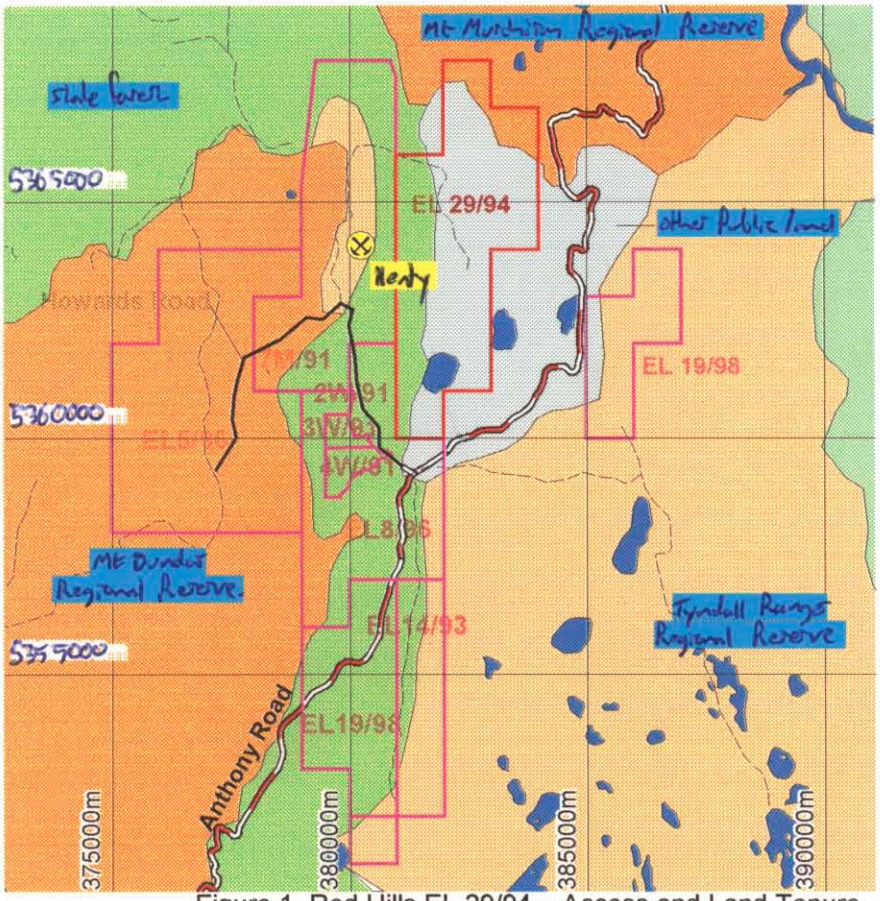

Figure 1. Red Hills EL 29/94 – Access and Land Tenure

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1.2 Topography and Vegetation

The Red Hills EL is situated at the northern end of the West Coast Range. The elevation ranges from about 500m in the south near Lake Selina to 1040m at Moxon Peak. A digital terrain model of the Red Hills area is presented in Figure 2. The board saddle between the Gooseneck and Moxon Peak is at about 800m elevation. The area receives a high rainfall.

The principal vegetation type consists of extensive areas of button grass with some tea tree and banksia. This is the dominant vegetation in regions of poorly drained soils and is commonly developed over Owen Conglomerate, glacial deposits and glaciated Cambrian rock types with poor soil development. In more sheltered and fire resistant areas, the button grass is replaced by a low scrub consisting of eucalyptus, banksia, tea tree and bauera. Remnant rain forest species including King Billy Pine, Deciduous Beech and Myrtle are abundant in the sheltered gully immediately west of the Red Hills ridge.

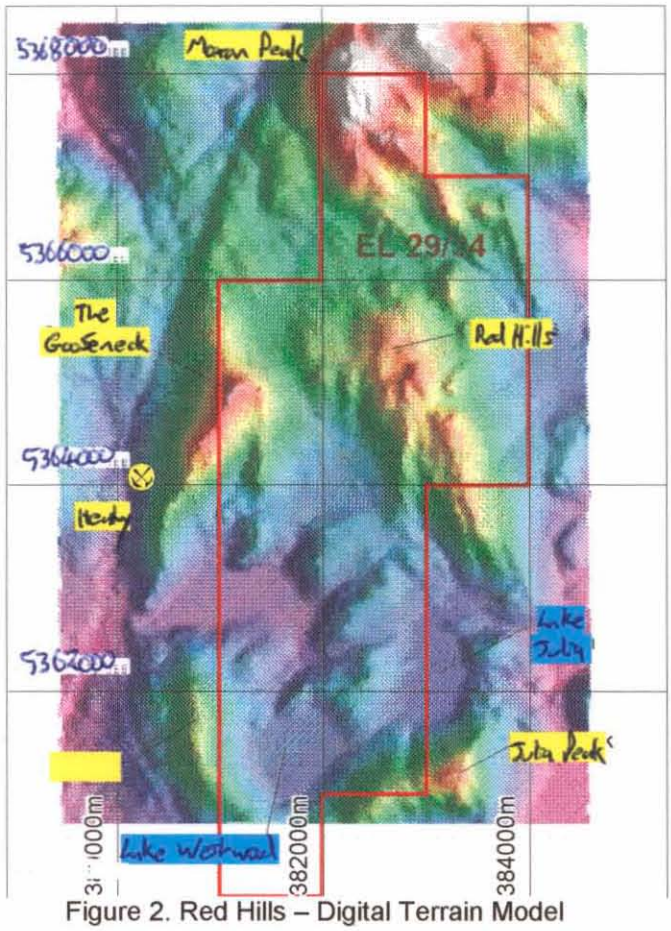

Figure 2. Red Hills – Digital Terrain Model

5 cm

1.3 Tenure

The EL comprises: Crown Land
Crown Land – Deferred Forest
Mt Murchison Regional Reserve

It is partially within the South West Tasmania, Australian Heritage Commission Act, Registered Entry. 0.5 sq km of land vested in the HEC is excluded from the EL.

The land tenure in the Red Hills area is shown on Figure 1.

1.4 Exploration Model

The Mt Read Volcanics are host to world class polymetallic VHMS deposits such as Rosebery and Hellyer, volcanogenic Cu-Au deposits such as Mt Lyell and high grade volcanogenic gold deposits such as Henty. The Red Hills EL is prospective for all three styles of mineralisation. The principal target of the Tasmanian Gold Project is a Henty style high grade Au deposit.

High grade volcanogenic Au deposit

Recent drilling and mining at Henty has shown that the deposit consists of a series of low tonnage (100 000-500 000t) high grade (10-25 g/t Au) lenses hosted in an extensive tabular alteration package with dimensions of approximately 3.5 km length by 300m high by 40m thickness.

The deposit is hosted in volcanics of the Central Volcanic Complex at or near the contact of the overlying Tyndall Group .

Volcanogenic Cu-Au Deposits

The Mt Lyell field is the type model of the volcanogenic Cu-Au mineralisation found in the Mt Read Volcanics (117.1 million tonnes at 1.2 % Cu and 0.4 g/t Au). The Mt Lyell field consists of lenses of disseminated pyrite-chalcopyrite mineralisation hosted in intensely altered volcanics. The deposits are hosted in the Central Volcanic Complex, extending up to the Tyndall Group contact. It has been suggested that there is a genetic link between this deposit style and Henty style high grade Au mineralisation (Huston and Camprad, 1999, Callaghan, 1998).

Polymetallic VHMS deposits

The Mt Read Volcanics are host to world class gold rich volcanic hosted massive sulphide deposits. The deposits are typically high grades (~20% Pb + Zn, 2.5 to 3.5 g/t Au) and range in size from about 3.3 million tonnes (Que River) to greater than 30 million tonnes (Rosebery).

Polymetallic VHMS deposits commonly form in clusters on well-defined stratigraphic horizons. The principle favourable horizon in the Henty area is at the Tyndall Group – Central Volcanic Complex contact. It is possibly repeated by folding at Red Hills, where an uneconomic resource of 1 million tonnes @ 5.9% Pb + Zn and 2 g/t Au has been delineated by previous exploration (Purvis et al, 1983).

2 PREVIOUS EXPLORATION

2.1 Exploration prior to 1994

Mining at Red Hills dates back to the late 1890's with the development of several short adits to work small copper shows. All mineral rights were acquired by the Mount Lyell Mining and Railway Company in 1905, however by 1908 all mining activity had ceased.

Modern exploration commenced in the late 1950's by a Rio Tinto / EZ JV who conducted several geophysical surveys and completed four diamond drill holes.

From 1969 to 1985 the Red Hills area was part of EL 9/66 held by the Mount Lyell Mining and Railway Company. Numerous geophysical surveys and 21 diamond drill holes were completed in this period. A small massive sulphide lens was intersected in hole RH5.

From 1985 to 1993 a CRAE / Aberfoyle Joint Venture held Red Hills as EL 5/85. This exploration focused on the use of EM (UTEM and DHEM) to define targets. Two drill holes were completed.

2.2 Exploration completed 1994 to 1999

EL 29/94 - Red Hills was granted to Plutonic Operations Limited on 22 October 1994. In 1994-95 the exploration completed consisted of a review of previous exploration and some reconnaissance mapping. An orientation soil survey showed that C horizon sampling was preferable to sampling of the B horizon.

18 line kilometres of grid was covered by additional soil sampling program between 1995 and 1997. A ground magnetic and a moving loop EM surveys were also conducted over the grid. Additional work completed in this period includes a review of the geology of the southern part of the tenement by Wally Herrmann, relogging of drill core and geological mapping.

No exploration was completed at Red Hills by Plutonic since 1997.

The exploration completed at Red Hills by Plutonic since 1994 is summarised in Table 1.

Table 1. Work Completed by Plutonic Operations Ltd within EL 29/94 - 1996 - 1999

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	1994-95	1995-97	1997-98	1998-99
General	Review of previous exploration	Geological Mapping	Data Review	No work completed
	Reconnaissance mapping	Review by W Herrmann		
	9 line km grid established	Additional 9 line km grid cut		
Drilling		Drill core relogging		
Geochemistry				
Soils	Orientation Survey (B + C horizons)	688 samples (Cu, Pb, Zn, Fe, Mn, Ag, Au)		
Rocks		24 samples (Cu, Pb, Zn, Fe, Mn, Ag, Au)		
Core		18 samples (Cu, Pb, Zn, Fe, Mn, Ag, Au) 12 samples (WR XRF, Nb, Y, Zr)		
Isotopes				
Geophysics		Moving Loop EM Survey		
		Ground Magnetics Survey		
Report	Reid and Close, 1995	Reid and Close, 1997	Dare, 1998	

3 WORK COMPLETED

Goldfields Exploration has been exploring at Red Hills since March 2000. The exploration completed during the current reporting period is summarised in Table 2.

Table 2. Exploration completed at Red Hills by Goldfields Exploration since March 2000.

	1999-2000	**2000-2001**
General	15 line kilometres of grid cut	
	1:5000 geological mapping	
	50 % Partial Relinquishment	
Drilling	Old core relogged	Drilling of RH20
Geochemistry		
Soils	Compilation of Plutonic soil data 68 samples (Cu, Pb, Zn, Au, Ag, As)	243 samples (Cu, Pb, Zn, Au, Ag, As)
Rocks	Compilation of historical data 9 samples for (Cu, Pb, Zn, NAA, XRF)	
Core	Compilation of historical data	
Isotopes	Compilation of historical data	
Geophysics	Helimag Survey – 885 line km	
	Compilation of historical data	
Report	Callaghan and Vicary, 2000 Vicary and Callaghan, 2000	This Report

4. RESULTS

4.1 Geology

There are few major changes to the geological interpretation reported in section 4.1 of the Red Hills 1999-2000 annual report (Callaghan and Vicary, 2000). Several structural interpretations are discussed in the review and drilling proposal of the stratabound gold/polymetallic VHMS horizon. The review and drilling proposal with sectional interpretation and level plans is located in Appendix 1.

4.2 Geochemistry

4.2.1 Soil Geochemistry

The C-horizon soil samples program reported in Callaghan and Vicary, 2000 was completed. A total of 311 samples were analysed at Analabs by AAS method A102 for Cu, Pb and Zn, As by H102 and by fire assay method F650 for Au. The results are tabulated in Appendix 2 – Appendix_soils.xls).

The results of previous sampling by Plutonic (Reid and Close, 1997) have been combined with the recent data and Mapinfo format colour images produced using Surfer. Figure 3 is an example of the Au image superimposed on a grey scale image of the 1st vertical derivative magnetic image. Similar images were produced for Cu, Pb, Zn and As (See Appendix 3-RedHills_Soil_colour_images.doc).

Prominent gold anomalies were located over the Far West Adit and the Lower Mineralised Horizon-Black Shale sequence in the vicinity of the Inferred Resource (5365400mN 382400mE). A weak gold soil anomaly extends north form the resource area. Further weak Au anomalism is located in the vicinity of the Northern Adits along with a coincident arsenic anomaly. The Far Western Adit Au anomaly is not associated with Cu, Pb, Zn or As anomalies.

Prominent copper anomalism is coincident with the Red Hills chlorite-k feldspar-silica alteration and Cu-Au-Mt mineralisation. Lead and arsenic levels are elevated over the LMH and shale horizon mapping out its lateral extent. Zinc forms widespread low level anomalies with several spot highs associated with the shale horizon.

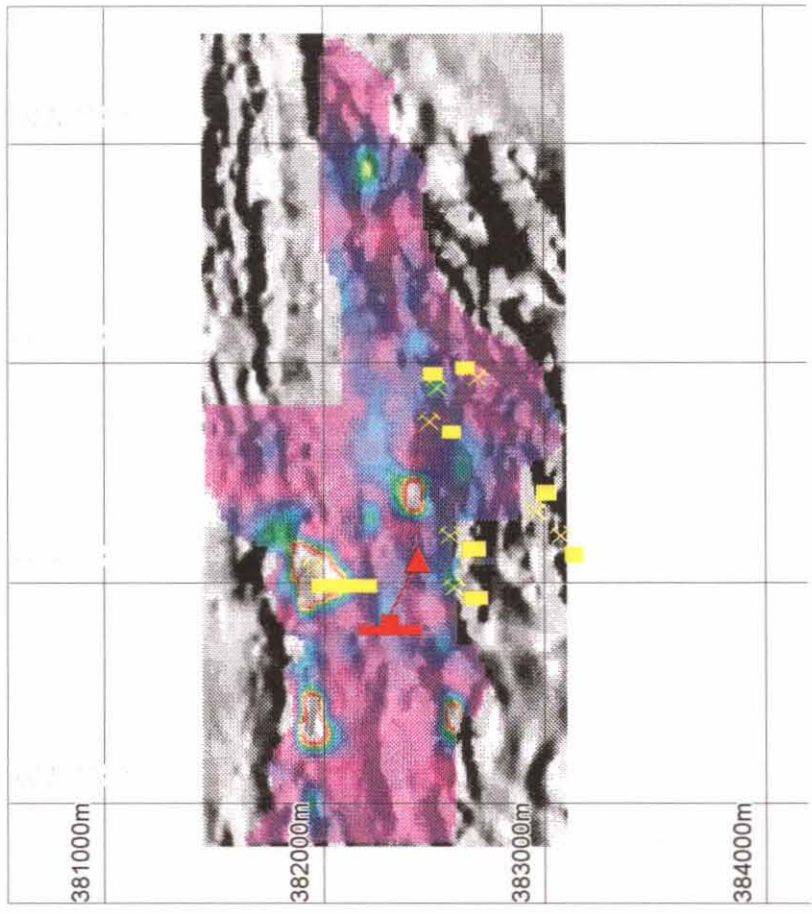

Figure 3. Red Hills Soils – Au over 1VD magnetics

5 cm

4.2.2 Rockchips

Minor rock chip sampling was completed over areas of anomalous Au soil geochem. Rock chips were submitted to Analabs Burnie and assayed by XRF for Ti, Zr, V and P, Au by fire assay, Cu, Pb, Zn, Ag and As by AAS. Results are tabulated in Appendix 4. Most samples were below detection with the exception of samples associated with the stratabound Au/polymetallic VHMS mineralised horizon where Au values to 0.1 g/t were assayed.

4.3 Geophysics

4.3.1 Helimag Survey

The previous years helimag survey data was processed and interpreted by Goldfields Geophysicist Mike House. His report is located in Appendix 5.

4.4 Drilling

4.4.1 RH20

One diamond drillhole (RH20) was completed to test the C-Horizon Au soil anomaly over the Far West Adits. The hole intersected weak to moderate silica-carbonate altered volcaniclastics and weakly qtz-feld phyric lavas with minor base-metals in associated qtz-carbonate veins. No significant assays were returned. Weakly anomalous Au was associated with the alteration with a best result of 2m @ 0.2 g/t Au. The soil anomaly is probably a result of leaching and concentration of Au in the humic soil profile from the underlying, weakly auriferous altered volcanics. No further work is recommended. The drillhole statistics and results are located in Appendix 6. A drill section 5365000 is located in Appendix 1.

5 DISCUSSION and RECOMMENDATIONS

The three principal mineralisation styles identified at Red Hills include:

Stratabound gold/polymetallic VHMS
Chlorite-silica-K feldspar alteration with vein and disseminated Cu-Au-Mt.
Silica-carbonate alteration and Qtz-Carb-Au-basemetal veining.

Although open to interpretation, spatial relationships suggest the three mineralisation styles formed from a common hydrothermal system. The stratabound gold/polymetallic VHMS horizon remains the most prospective horizon on the EL.

Mapping and relogging of drillcore confirms the host of the Au-VHMS horizon to be CVC volcaniclastic mass flow units (LMH) located just below the Tyndall Group boundary. The horizon has been well tested in the vicinity of RH5 (inferred resource 1Mt @ 5.9% Pb + Zn, 2g/t Au) which is coincident with the strongest soil anomalies. A review of these drillholes suggests the prospective zone is still open at depth.

Although primarily regarded as a basemetal prospect in the past largely due to one intersection (RH5 2.8m @ 34.5% Zn, 11.4% Pb, 0.3% Cu, 250 g/t Ag and 6.5 g/t Au), the mineralisation contains anomalous gold values to a maximum of 8.1 g/t in RH8.

Gold mineralisation is associated with sphalerite-pyrite mineralisation in intensely silica-sericite altered volcanics and is considered to have formed at or just below the seafloor. Although Au and Zn grades are spotty, mineralisation within the LMH is continuous with a zinc zone (Zn>0.1%) and gold zone (Au>0.1 g/t) being delineated over a strike length in excess of 500m (see level plans and section in Appendix 1). The Au zone is located at the top of the zinc zone.

The LMH directly overlies the extensively chlorite-magnetite-K-feldspar altered Red Hills Lava with the latter probably representing a footwall alteration zone. The extensive footwall alteration suggests large volumes of hydrothermal fluid were involved adding to the potential for the host horizon to contain significant deposits.

Mineralisation has been drill tested to a depth of 300m from surface (~500mRL) and is still open down dip. Fold axes within the EL plunge south and from the limited information available it is likely the LMH also plunges south.

The extent of the footwall alteration and similar stratigraphic position of the mineralised horizon to the Henty-Mt Julia deposits warrants further investigation of this zone. The Zone 96 shaft is located approximately 2km to the SW of the known mineralisation and could be used to access orebodies to a depth of -100m RL. This leaves an area of approximately 1.5km strike extent and 600m vertical of the mineralised zone that has never been explored. Any resources identified would have to be of sufficient size and grade to justify development. Because the LMH at Red Hills is untested at depth but potentially accessible from current development puts Goldfields in a unique position.

Drilling Proposal

It is recommended that the LMH be tested with a deep drilling program (Figure 5). The first diamond drill hole (RH21) should be targeted at around 100mRL on line 5365700N and followed up with an updip wedge at around 250mRL. This hole and wedge is designed to verify either of the structural interpretations and test for continuity of the mineralised zone at depth. If this hole successfully identifies mineralisation, two further reconnaissance holes and wedges should be drilled on lines 5364300N and 5365000N respectively. The results of the drilling program should be reviewed at this stage.

Table 3 lists approximate hole locations, lengths and drilling costs. An additional $10 000 is required to cover assay costs.

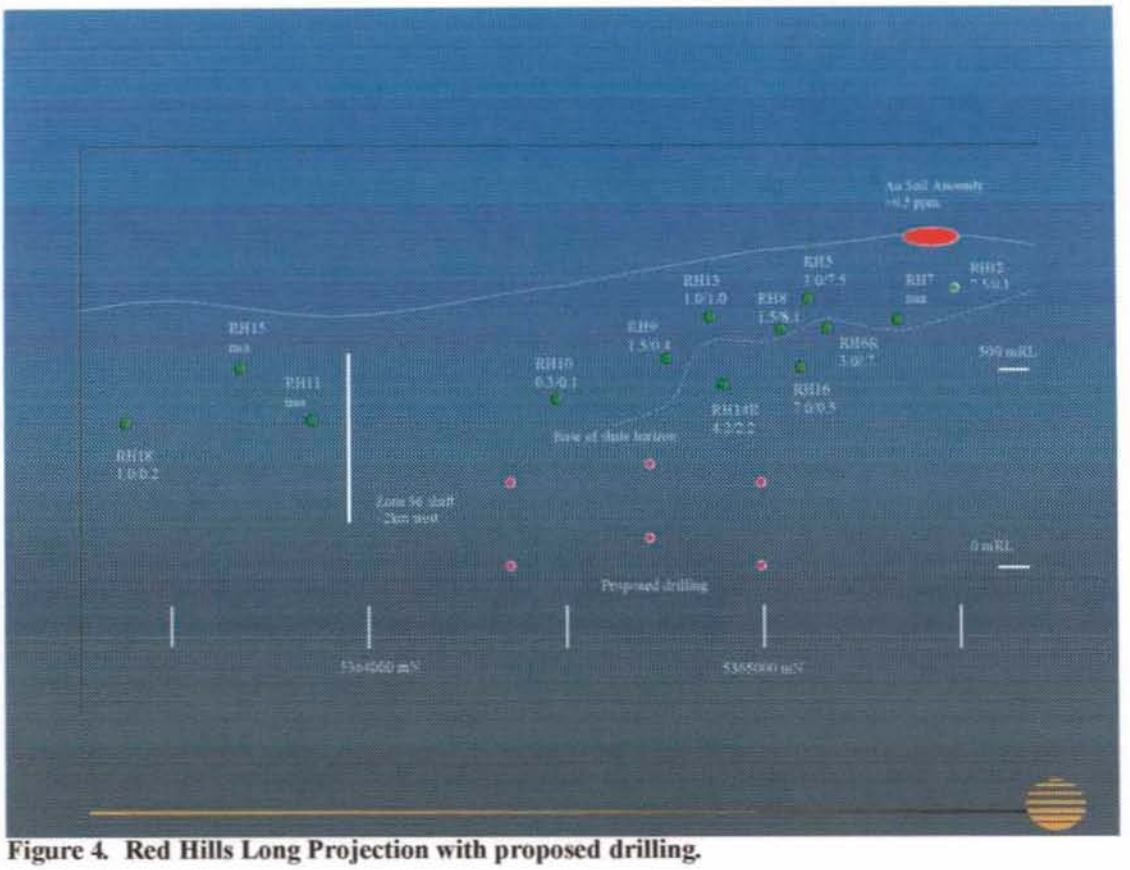

Figure 4. Red Hills Long Projection with proposed drilling.

BHID	Northing	Easting	RL	Length	Cost
RH21	5364700	382000	720	850	80750
RH21A	5364700	382000	720	400	38000
RH22	5364450	382000	680	850	80750
RH22A	5364450	382000	680	400	38000
RH23	5365005	381890	775	900	85500
RH23A	5365005	38190	775	450	42750
Total					365750

Table 3. Drilling costs at $95/m.

The northern extension of the horizon becomes thinner but does continue to the northwestern EL boundary. The shale horizon has a magnetic signature in the south due to the presence of minor disseminated pyrrhotite. This signature is destroyed by pyritic alteration around the mineralised RH5 position. This demagnetised zone extends further north towards the slopes of Moxon Peak where it has not been drill tested. A review of the existing geophysical data is recommended prior to drill testing.

C-horizon soil sampling has proved successful in defining both the strike extent of the mineralised CVC LMH and shale horizon and the dacite hosted, Qtz-Carb-Au mineralisation. The LMH has a strong Au and basemetal soil anomaly coincident with the inferred resource in the vicinity of RH5. It becomes spotty and discontinuous to the north.

Drilling of the Far West Adit strong Au-soil anomaly suggests the anomaly results from concentration of Au in the humic soils from weakly auriferous Au mineralisation in the underlying volcanics. No further work is recommended for this zone.

The helimagnetic and radiometric survey clearly outlines the chl-silica-k feldspar Cu-Au-Mt zone associated with the Red Hills lava. This is an extensive hydrothermal alteration zone extending in excess of 5kms. If there is a genetic relationship between this potential footwall alteration zone, the other prospective horizons may also extend further north and south along strike. Subaerial exposure of the "Red Hills" Lava prior to Owen deposition has removed much of the prospective horizon overlying and to the east of the ridge.

Summary of Recommendations

1) Deep drilling program of Stratabound Au/VHMS zone.

2) Review geophysical data in the Northern Adits region and along the Au-VHMS host horizon to the north.

6. REFERENCES

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APPENDIX 1

Review of stratabound Au/polymetallic VHMS horizon and proposed drilling

RED HILLS DRILLING PROPOSAL

Three principal mineralisation styles have been identified at Red Hills (Callaghan and Vicary, 2000):

1. Stratabound gold/polymetallic VHMS
2. Disseminated and vein Cu-Au-Mt.
3. Silica-carbonate alteration and Qtz-Carb-Au-basemetal veining.

A review of the Red Hills EL indicates that the most prospective horizon remains the stratabound gold/polymetallic VHMS prospect originally discovered by Mt Lyell. Sections and level plans detailing the geology and mineralised zones within the prospect are located in the enclosures.

The prospect is located at the CVC-Tyndall Group boundary in dacitic volcaniclastics and lavas similar to the upper Newton Creek dacites, (a similar stratigraphic position to the Henty-Mt Julia deposits). The host rocks stratigraphically underly carbonate and carbonate breccias which are also a feature of the Henty deposits (Halley and Roberts, 1997).

Mineralisation is best developed in a sequence of polymict volcaniclastic breccias and sandstones with minor dacite lavas directly overlying the intensely chlorite-k-feldspar-magnetite altered Red Hills 'Lava' to the east. This horizon is known as the Lower Mineralised Horizon or LMH (Reid and Close, 1997). A less extensive zone of mineralisation (Upper Mineralised Horizon, UMH) is associated with the black shale and vitric siltstone sequence up dip.

Although primarily regarded as a basemetal prospect in the past largely due to one intersection (RH7 2.8m @ 34.5% Zn, 11.4% Pb, 0.3% Cu, 250 g/t Ag and 6.5 g/t Au), the mineralisation contains anomalous gold values to a maximum of 8.1 g/t in RH8. Best intersections for the LMH are shown in Figure 1 and Table 1. An inferred resource of 1Mt @ 2 g/t Au has been calculated for this zone (Purvis et al, 1983).

Gold mineralisation is associated with sphalerite-pyrite mineralisation in intensely silica-sericite altered volcanics and is considered to have formed at or just below the seafloor. Although Au and Zn grades are spotty, mineralisation within the LMH is continuous with a zinc zone (Zn>0.1%) and gold zone (Au>0.1 g/t) being delineated over a strike length in excess of 500m (see level plans and sections). The Au zone is located at the top of the zinc zone.

The LMH directly overlies the extensively chlorite-magnetite-K-feldspar altered Red Hills Lava with the latter probably representing a footwall alteration zone. The extensive footwall alteration suggests large volumes of hydrothermal fluid were involved adding to the potential for the host horizon to contain significant deposits.

Mineralisation has been drill tested to a depth of 300m from surface (~500mRL) and is still open down dip. Fold axes within the EL plunge south and from the limited information available it is likely the LMH also plunges south.

Table 1. Red Hills Au intercepts.

BHID	UMH	From	To	Length	Au g/t		LMH	From	to	Length	Au g/t
RH6R					nsa			285	288	3	1.1
								306	309	3	0.7
RH8		~185			nsa			321.5	326	4.5	3.6
		282.5	284	1.5	0.5		inc	321.5	323	1.5	8.1
RH14R								362	372.7	10.7	1.1
							inc.	365.5	369.7	4.2	2.2
RH13		37.5	47		nsa			206	218	12	0.4
RH16		197	214	17	0.4			334	341	7	0.5
	inc.	197	199	2	0.8		inc.	338.4	339	0.6	0.9
		323	232.2	0.2	6.9						
RH5		~40			nsa			196	200	4	4.5
							inc.	198	199	1	7.5
								211.5	217.5	6	0.6
RH9		134.5			nsa			311	318.5	7.5	0.2
							inc.	312.5	314	1.5	0.4
RH7		~100			na			248.5	254.5		nsa
RH10		~240			na			379	379.3	0.3	0.1
RH11		126.5	129.5		nsa			~320			nsa
RH15		~100			nsa			~200			nsa
RH18		231	236	5	nsa			296	297	1	0.2
RH12		40			nsa			122.5	130	7.5	0.1

Figures 3 and 4 demonstrate two possible structural interpretations for the Red Hills – Henty area.

Model 1

Open folds mapped in the overlying siliciclastics (Callaghan and Vicary, 2000) could result from tight folding in the underlying volcanics with a synclinal axis located on the shale horizon as suggested by Reid and Close (1997) and demonstrated in Figure 3. This Model suggests much of the prospective horizon was removed prior to deposition of the Owen Conglomerate and was potentially stoped out by the Moxon Saddle rhyolite to the west. Facing within the Owen Conglomerate require an anticlinal axis within the Red Hills chlorite-magnetite-K-feldspar zone for both models. The synclinal axis represents a prospective target with folding focussed on altered volcanics and sulphide mineralisation. Hellyer and Que river occur in similar open folds within essentially flat lying volcanics.

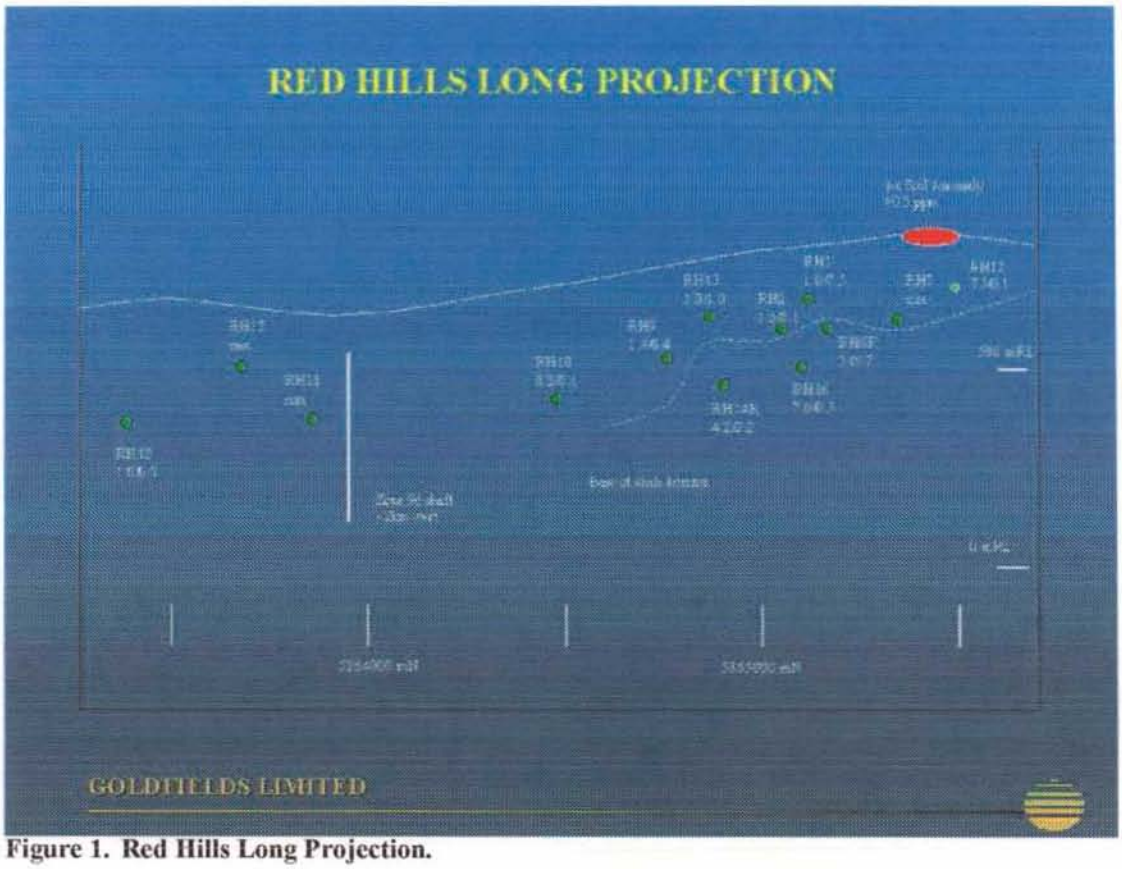

Figure 1. Red Hills Long Projection.

5 cm

Model 2

Alternatively the open folding of the siliciclastics may have formed in response to shortening and foliation development within the underlying volcanics during deformation (Figure 4). In this case the prospective horizon is open at depth, possibly joining up with the Henty-Mt Julia zone. This interpretation requires the rhyodacitic rocks to the west of the mineralised zone to be part of the Lower or Middle Tyndall Group. If this is the case, this unit is poorly represented to the west of the Gooseneck.

Exploration Potential

The Zone 96 shaft is located approximately 2km to the SW of the known mineralisation and could be used to access orebodies to a depth of -100m RL. This leaves an area of approximately 1.5km strike extent and 600m vertical of the mineralised zone that has never been explored. Any resources identified would have to be of sufficient size and grade to justify development. Because the LMH at Red Hills is untested at depth but potentially accessible from current development puts Goldfields in a unique position.

Drilling Proposal

It is recommended that the LMH be tested with a deep drilling program (Figure 5). The first diamond drill hole (RH21) should be targeted at around 100mRL on line 5365700N and followed up with an updip wedge at around 250mRL. This hole and wedge is designed to verify either of the structural interpretations and test for continuity of the mineralised zone at depth. If this hole successfully identifies mineralisation, two further reconnaissance holes and wedges should be drilled on lines 5364300N and 5365000N respectively. The results of the drilling program should be reviewed at this stage.

A longyear 44 or similar rig should be used for the program. Table 2 lists approximate hole locations, lengths and drilling costs. An additional $10 000 is required to cover assay costs.

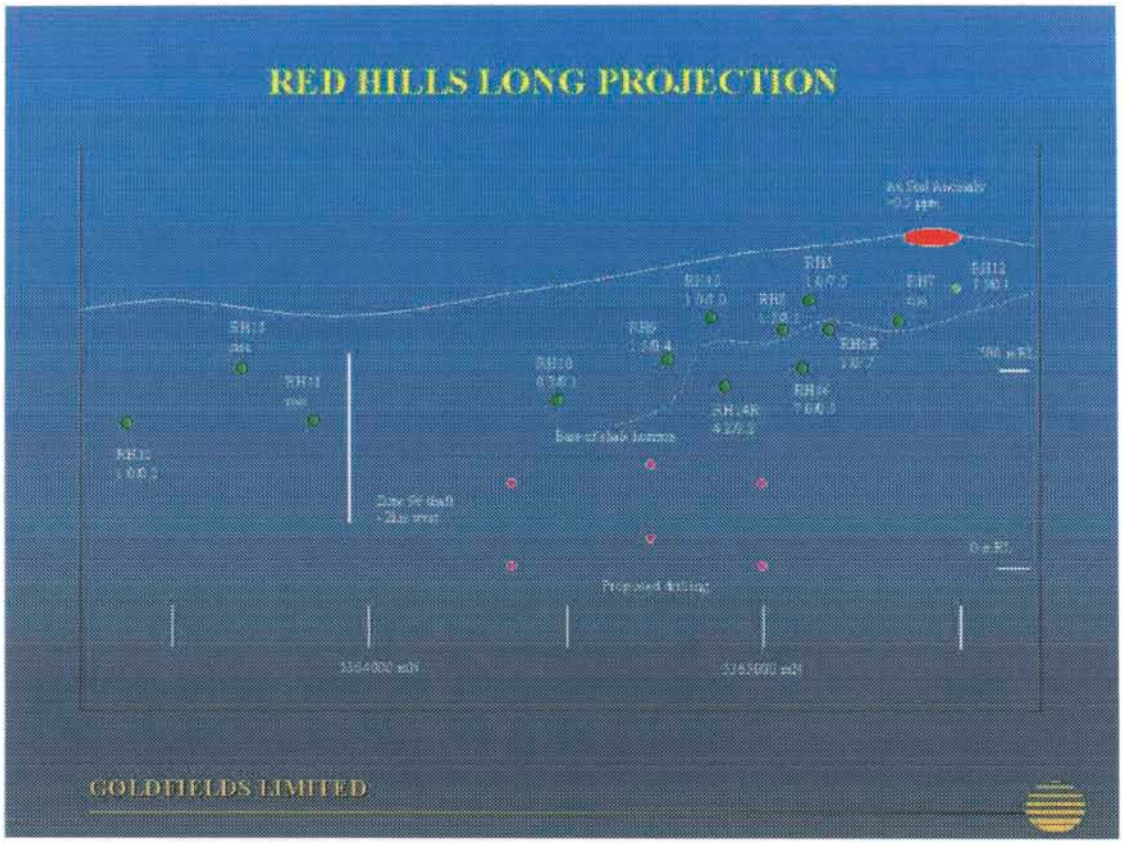

Figure 5. Red Hills Long Projection with proposed drilling.

5 cm

BHID	Northing	Easting	RL	Length	Cost
RH21	5364700	382000	720	850	80750
RH21A	5364700	382000	720	400	38000
RH22	5364450	382000	680	850	80750
RH22A	5364450	382000	680	400	38000
RH23	5365005	381890	775	900	85500
RH23A	5365005	38190	775	450	42750
Total					365750

Table 2. Drilling costs at $95/m.

REFERENCES

Callaghan, T.J., and Vicary, M.J., 2000. 1999-2000 Annual Report. Red Hills EL 29/94. Goldfields Exploration. (unpub).

Purvis, JG, Jones, MT, Fitzgerald, FG and Poltock, RA. 1983. A geological review of the Tyndall Exploration Licence 9/66, western Tasmania. Goldfields Exploration PL. (unpub) [TCR 83-3477].

Reid , R.O and Close, R.J., 1997. Red Hills EL 29/94. Report on exploration to 21 October 1997. Plutonic Operations Limited. (unpub)

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Figure 3. Structural Model 1 for Red Hills-Gooseneck area

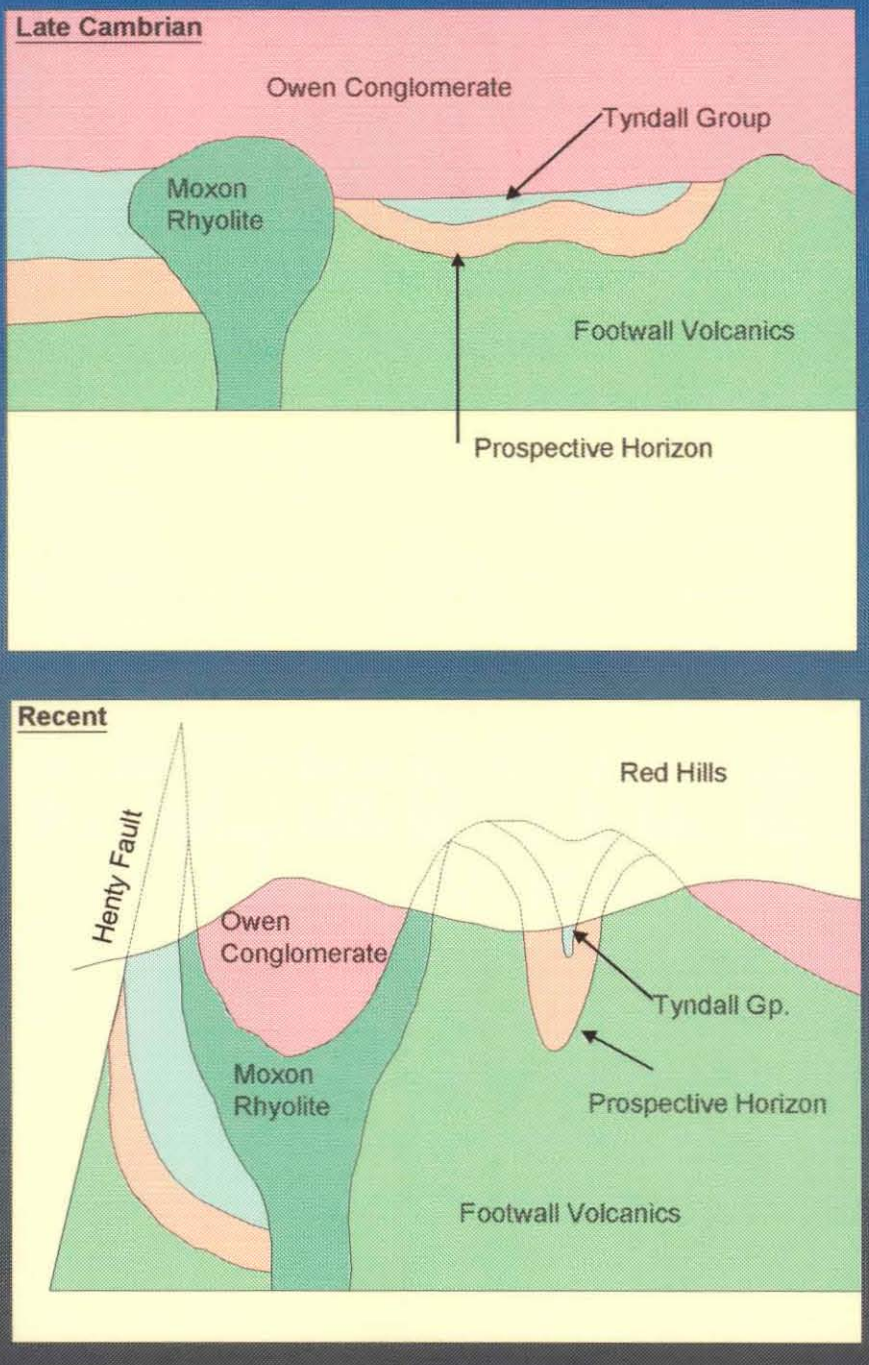

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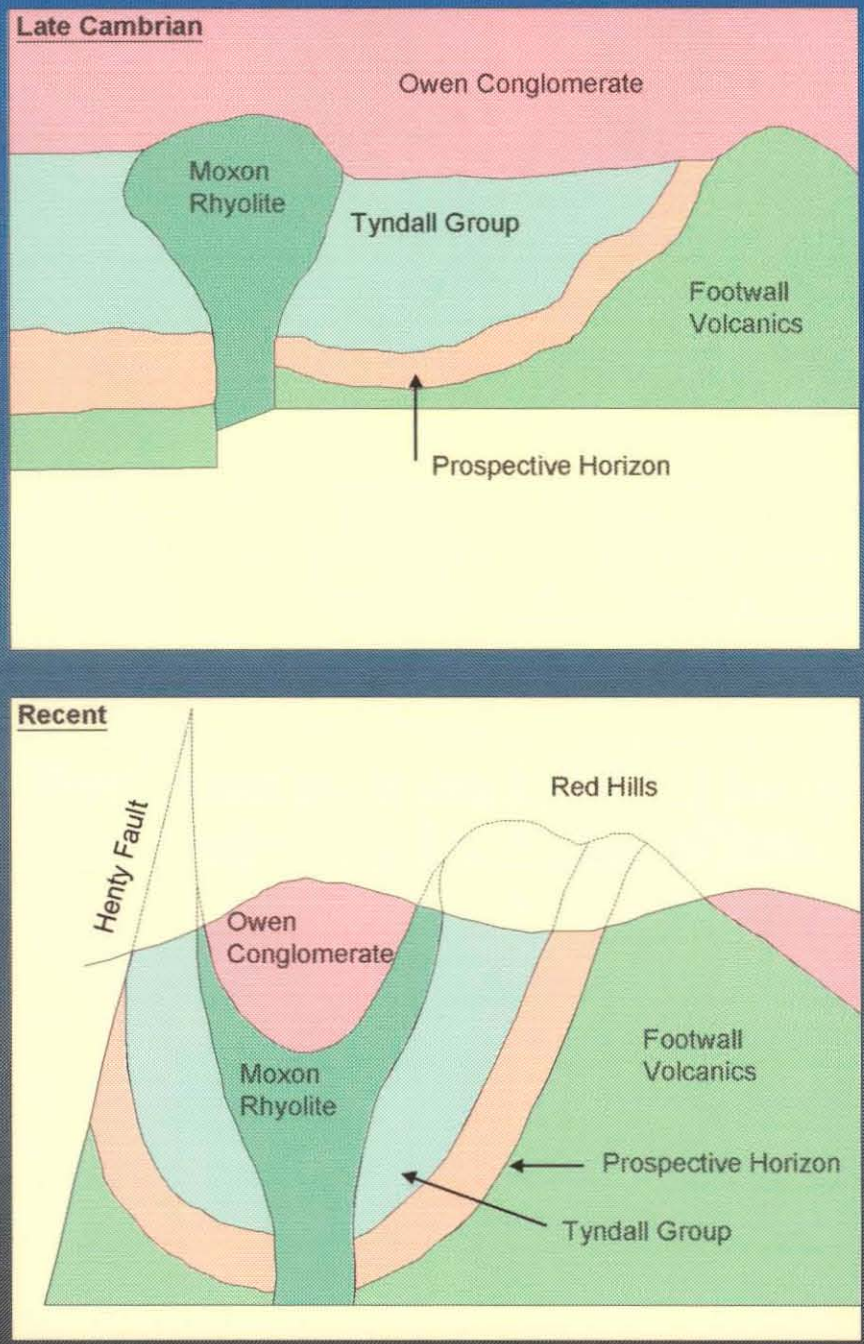
Figure 4. Structural Model 2 for Red Hills-Gooseneck area



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APPENDIX 2

C-horizon soil sample locations and analyses

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Sample	Northing	Easting	Au	Au(R)	Cu	Pb	Zn	Ag	As	Fe	Mn	Depth	Horizon	Comments
1082001	5367500	382000.0	-0.01		10	38	99	-1	14	NA	NA	0.40	B/C	Grey soil, grey-white rc - 2 holes
1082002	5367500	382025.0	-0.01		7	27	55	-1	10	NA	NA	0.30	B	Grey/brown soil, 2 holes, to bedrock
1082003	5367500	382050.0	-0.01		8	21	50	-1	6	NA	NA	0.20	B	Grey rc, brown soil, to bedrock - 4 holes
1082004	5367500	382075.0	-0.01		5	15	43	-1	8	NA	NA	0.50	B/C	Grey/white rc, grey/brown soil
1082005	5367500	382100.0	-0.01		6	17	42	-1	8	NA	NA	0.40	A/B	B soil, grey/white rc to b/r, b/r visible, 2 holes
1082006	5367300	382000.0	-0.01		5	5	28	-1	7	NA	NA	0.40	B/C	Green/grey soil, grey rc-bedrock, 2 holes
1082007	5367300	382025.0	-0.01		4	9	23	-1	8	NA	NA	0.80	B	Grey soil, Qz rc-bedrock, 2 holes
1082008	5367300	382050.0	-0.01		5	8	23	-1	13	NA	NA	0.40	B	Grey soil, Qz rc-bedrock, 2 holes
1082009	5367300	382075.0	-0.01		9	22	34	-1	15	NA	NA	0.10	B	Grey rc, grey soil, rc sample only
1082010	5367300	382100.0	-0.01		7	10	33	-1	6	NA	NA	0.20	B	Grey soil, Qz gravels, 4 holes, by sidecreek and cliff
1082011	5367300	382125.0	-0.01		5	16	24	-1	6	NA	NA	0.20	B	Grey soil, Grey rc-bedrock, lots of cliffs
1082012	5367300	382150.0	-0.01		2	6	23	-1	2	NA	NA	0.80	B	Grey soil, Qz gravels, 3 holes, lots of cliffs
1082013	5367300	382175.0	-0.01		2	7	21	-1	3	NA	NA	0.40	B	Grey soil, Qz gravels, bedrock, 5 holes
1082014	5367300	382200.0	-0.01		10	22	28	-1	1	NA	NA	0.40	A/B	Grey soil, Qz gravels, bedrock, 3 holes, o/c of rock
1082015	5367300	382225.0	-0.01		5	11	24	-1	16	NA	NA	0.30	C	Brown/grey soil, brown/orange rc to bedrock
1082016	5367300	382250.0	-0.01		5	9	13	-1	10	NA	NA	0.40	B/C	Grey/brown soil, grey/white rc to bedrock
1082017	5367300	382275.0	-0.01		5	9	8	-1	9	NA	NA	0.50	B/C	Grey/brown soil, grey/white rc to bedrock
1082018	5367300	382300.0	-0.01		9	10	11	-1	15	NA	NA	0.90	B/C	Grey/yellow-brown soil, grey rc(qz), 2 holes, to bedrock
1082019	5367300	382325.0	-0.01	-0.01	12	11	10	-1	13	NA	NA	0.30	B	Grey/brown soil, grey rc, to bedrock, 4 holes
1082020	5367300	382350.0	-0.01		8	7	9	-1	10	NA	NA	0.20	B	Brown/grey soil and rc, 4 holes
1082021	5365800	382075.0	-0.01		5	8	56	1	5	NA	NA	0.60	B/C	Grey/white rc, grey/white soil, 4 holes, to bedrock
1082022	5365800	382050.0	-0.01		4	17	22	-1	7	NA	NA	1.00	B	Beside creek, brown soil, grey/white rc
1082023	5365800	382025.0	-0.01		4	15	27	-1	2	NA	NA	0.80	B/C	Brown/grey soil, grey/green/orange rc
1082024	5365800	382000.0	-0.01		6	16	26	-1	5	NA	NA	0.80	B/C	Brown,green soil, green rc, x 4 holes
1082025	5365800	381975.0	-0.01		5	51	18	-1	1	NA	NA	0.90	C	Brown/green soil, green rc
1082026	5365800	381950.0	-0.01		5	11	19	1	6	NA	NA	0.60	C	Brown/grey/orange soil, brown/grey rc, 6 holes
1082027	5365800	381925.0	-0.01	-0.01	4	11	24	-1	-1	NA	NA	0.60	B/C	Brown/green/grey soil, green/orange rc, 2 holes to b/r
1082028	5365800	381900.0	-0.01		4	7	30	-1	-1	NA	NA	0.60	B/C	Brown/green soil, green rc, 3 holes
1082029	5365800	381875.0	-0.01		8	47	57	-1	-1	NA	NA	0.70	B/C	Gren/brown soil, green rc
1082030	5365800	381850.0	-0.01		4	9	30	-1	-1	NA	NA	0.60	B	Brown/green soil, green rc
1082031	5365800	381825.0	-0.01		5	19	31	-1	-1	NA	NA	0.50	B	Disturbed brown soil, white rc, beside road
1082032	5365800	381800.0	-0.01		4	16	55	1	1	NA	NA	0.90	C	Green/brown soil, grey/green rc, beside rod
1082033	5365800	381775.0	-0.01		5	5	28	-1	4	NA	NA		B/C	Brown/grey soil, grey rc, beside road
1082034	5365800	381750.0	-0.01		7	22	28	-1	1	NA	NA	1.20	B	Disturbed brown soil, beside road
1082035	5365800	381725.0	-0.01		5	7	82	1	-1	NA	NA	0.40	C	Orange soil, grey/brown rc
1082036	5365800	381700.0	-0.01		4	12	27	-1	-1	NA	NA	0.60	C	Grey/brown soil, grey/white rc
1082037	5365800	381675.0	-0.01		5	9	31	-1	-1	NA	NA	0.80	C	Brown/green soil, green rc
1082038	5365800	381650.0	-0.01		4	6	26	-1	3	NA	NA	0.80	C	Grey/green/brown soil, grey/white rc
1082039	5365800	381625.0	-0.01		5	9	23	-1	2	NA	NA	0.70	C	Grey/green/brown soil, grey/white rc
1082040	5365800	381600.0	-0.01		6	25	89	-1	1	NA	NA	0.60	C	Grey/green/brown soil, grey/white rc
1082041	5365800	381575.0	-0.01		4	15	25	-1	-1	NA	NA	1.00	B	Brown soil, white rc, beside creek
1082042	5365800	381550.0	-0.01		5	15	24	-1	-1	NA	NA	0.80	B	Brown/white rc, green rc, humus in swamp
1082043	5365800	381525.0	-0.01		13	35	97	-1	-1	NA	NA	1.00	B/C	Brown/white/green rc, humus in swamp
1082044	5365800	381500.0	-0.01	-0.01	9	25	49	-1	-1	NA	NA	1.00	C	Yellow/brown/white soil, Green/yellow rc
1082045	5365800	381475.0	-0.01		10	105	24	-1	-1	NA	NA	0.60	C	Brown/yellow soil, yellow/white rc
1082046	5365800	381450.0	-0.01		6	22	22	-1	-1	NA	NA	0.60	C	White/brown soil
1082047	5365600	381875.0	-0.01		3	14	27	-1	2	NA	NA	0.90	C	Green/grey soil, green/white rc
1082048	5365600	381850.0	-0.01		5	32	26	-1	2	NA	NA	0.30	B	Grey/brown soil, green/white rc, 2 holes to bedrock

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1082049	5365600	381825.0	-0.01		3	14	24	-1	6	NA	NA	0.50		Brown soil, grey/brown rc, 3 holes
1082051	5365600	381800.0	0.02		5	10	15	-1	2	NA	NA	0.30	B/C	Green/brown/grey soil, grey rc, 4 holes
1082052	5365600	381775.0	-0.01		4	15	24	-1	2	NA	NA	0.20	C	Grey,bc soil, brown/green rc, 4 holes
1082053	5365600	381750.0	0.04		4	4	22	-1	-1	NA	NA	0.50	B/C	Grey/brown soil, grey/green rc, 3 holes
1082054	5365600	381725.0	0.02		3	4	16	-1	4	NA	NA	0.70	B	Grey/brown soil, grey rc, 3 holes
1082055	5365600	381700.0	-0.01		3	5	22	-1	1	NA	NA	0.80	B/C	Grey/green soil, grey/green rc, 1 hole
1082056	5365600	381675.0	-0.01		3	8	19	-1	4	NA	NA	0.80	B/C	Grey/green soil, grey rc, 2 holes
1082057	5365600	381650.0	-0.01		3	5	11	-1	4	NA	NA	0.40	B/C	Grey/brown soil, grey/green rc, 3 holes
1082058	5365600	381625.0	0.02		4	17	38	-1	1	NA	NA	0.40	B/C	Dark brown soil, qz gravel, 3 holes
1082059	5365600	381600.0	-0.01		7	44	35	-1	3	NA	NA	0.90	A/B	Green/brown soil
1082060	5365600	381575.0	-0.01		3	6	48	-1	3	NA	NA	0.50	C	Green/grey soil, orange/green rc, 1 hole
1082061	5365600	381550.0	-0.01		5	18	44	-1	-1	NA	NA	0.50	B/C	Green/grey soil, grey rc, 3 holes
1082062	5365600	381525.0	-0.01		6	15	44	-1	7	NA	NA	1.00	B/C	Brown soil, green/grey rc, 2 holes
1082063	5365600	381500.0	-0.01		3	4	16	-1	-1	NA	NA	0.40	B	Grey/brown soil, quartz rc
1082064	5365600	381475.0	-0.01		3	13	126	-1	1	NA	NA	1.10	C	Grey/green soil, grey rc, 1 hole
1082065	5365600	381450.0	-0.01		2	31	48	-1	-1	NA	NA	0.70	C	Green/grey soil, bedrock, 1 hole
1082066	5365400	381500.0	-0.01		3	4	17	-1	-1	NA	NA	0.40	B/C	Grey/green soil, Quartz rc, 4 holes
1082067	5365400	381525.0	-0.01	-0.01	32	23	121	-1	9	NA	NA	1.10	C	Dark grey/green soil, 1 hole
1082068	5365400	381550.0	-0.01		15	24	38	-1	-1	NA	NA	0.40	C	Green/grey soil, bedrock, 3 holes
1082069	5365400	381575.0	-0.01		6	18	21	-1	-1	NA	NA	0.40	B/C	Brown/Grey/white soil, white rc, 3 holes
1082070	5365400	381600.0	-0.01		10	20	42	-1	6	NA	NA	0.50	C	Brown/orange soil, 2 holes
1082071	5365400	381625.0	-0.01		4	21	17	-1	3	NA	NA	0.40	C	Green/grey soil, light brown rc, 3 holes
1082072	5365400	381650.0	-0.01		2	14	15	-1	-1	NA	NA	0.40	B/C	Light brown/green soil, 3 holes
1082073	5365400	381675.0	-0.01		2	11	17	-1	4	NA	NA	0.50	B/C	Light brown/grey soil, 3 holes
1082074	5365400	381700.0	-0.01		3	12	23	-1	-1	NA	NA	0.50	C	Light brown/green soil
1082075	5365400	381725.0	-0.01		3	5	25	-1	6	NA	NA	0.50	B/C	Light brown/green soil, brown rc/quartz, 3 holes
1082076	5365400	381750.0	-0.01	-0.01	3	13	27	-1	-1	NA	NA	0.30	B/C	Light brown soil, white rc, 3 holes
1082077	5365400	381775.0	-0.01		4	34	37	-1	-1	NA	NA	0.70	C	Light brown soil, quartz rc, 1 hole
1082078	5365400	381800.0	-0.01	-0.01	3	22	44	-1	-1	NA	NA	0.70	B/C	Orange/green soil, white rc
1082079	5365400	381825.0	-0.01		4	52	52	-1	-1	NA	NA	0.60	B/C	Brown/green soil, white/green rc, to bedrock
1082080	5365400	381850.0	-0.01		3	27	38	-1	2	NA	NA	0.50	B/C	Brown soil, white rc
1082081	5365400	381875.0	-0.01		3	107	35	-1	6	NA	NA	0.70	C	Brown/white soil, white rc
1082082	5364400	382100.0	-0.01		7	48	31	-1	9	NA	NA	0.70	A/B	Brown soil, high humus content
1082083	5364400	382075.0	-0.01	-0.01	3	19	17	-1	7	NA	NA	0.60	B/C	Grey/brown soil, white rc
1082084	5364400	382050.0	-0.01		5	39	22	-1	8	NA	NA	0.80	B/C	White/brown soil, white/purple rc
1082085	5364400	382025.0	-0.01		7	83	28	-1	4	NA	NA	0.70	B/C	Brown soil, green/white rc
1082086	5364400	382000.0	-0.01		8	91	48	-1	7	NA	NA	0.70	B/C	Brown/green soil, green rc
1082087	5364400	381975.0	-0.01		5	48	34	-1	15	NA	NA	0.70		Brown/green soil, green/white rc
1082088	5364400	381950.0	1.79	2.00	4	51	36	-1	2	NA	NA		C	Green/brown soil
1082089	5364400	381925.0	-0.01		3	14	46	-1	2	NA	NA	0.70	C	Brown/green soil, brown/green rc
1082090	5364400	381900.0	-0.01		3	7	19	-1	2	NA	NA	0.70	B	Brown/white soil, brown/white rc
1082091	5364400	381875.0	-0.01	-0.01	3	9	20	-1	2	NA	NA	0.70	C	Green/white/brown soil, white/brown rc
1082092	5364200	381750.0	-0.01		26	56	137	-1	1	NA	NA	1.00	C	Orange soil, yellow rc
1082093	5364200	381775.0	-0.01		8	6	29	-1	2	NA	NA	0.90	C	Orange/brown/white soil, white rc
1082094	5364200	381800.0	-0.01		4	15	38	-1	1	NA	NA	0.90	C	Grey/white soil, green/grey/white rc
1082095	5364200	381825.0	-0.01		8	28	31	-1	-1	NA	NA	0.40	A/B	Green soil, white rc (gravel)
1082096	5364200	381850.0	-0.01		8	12	18	-1	6	NA	NA	0.50	A	Brown soil, quartz rc, humus
1082097	5364200	381875.0	-0.01		4	7	14	-1	4	NA	NA	0.60	C	Brown soil, white rc, quartz
1082098	5364200	381900.0	-0.01		4	7	39	-1	5	NA	NA	0.50	B/C	Grey/white soil, green rc, 1 hole

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1082099	5364200	381925.0	-0.01		6	10	35	-1	7	NA	NA	0.40	B/C	Green/brown soil, rc, 3 holes
1082101	5364200	381950.0	-0.01		5	9	19	-1	8	NA	NA	0.60	C	Green/grey soil, grey/green rc, 2 holes
1082102	5364200	381975.0	-0.01		5	11	22	-1	5	NA	NA	0.40	B/C	Grey/brown soil, grey/green rc, to bedrock
1082103	5364200	382000.0	-0.01	-0.01	4	-3	17	-1	-1	NA	NA	0.30	B/C	Brown/grey soil, grey/green rc, to bedrock, 3 holes
1082104	5364200	382025.0	-0.01		7	3	20	-1	-1	NA	NA	0.40	C	Orange/green soil, orange rc, 2 holes
1082105	5364200	382050.0	-0.01		6	13	22	-1	1	NA	NA	0.40	B	Brown soil, quartz gravel, 2 holes
1082106	5364200	382075.0	-0.01		6	47	33	-1	-1	NA	NA	0.40	C	Green/brown soil, quartz rc, 2 holes
1082107	5364200	382100.0	-0.01		11	44	32	-1	12	NA	NA	0.50	B/C	Brown soil, green/grey rc, 2 holes
1082108	5364200	382125.0	-0.01		12	32	51	-1	-1	NA	NA	0.90	B/C	Brown/green soil, green/grey rc, 1 hole
1082109	5364200	382150.0	-0.01		4	12	36	-1	9	NA	NA	0.70	B/C	Grey/green soil, grey/white rc, 3 holes
1082111	5364200	382200.0	-0.01		33	86	73	-1	26	NA	NA	0.30	C	Green/grey soil, brown/orange rc (shale), 1 hole
1082112	5364200	382225.0	-0.01		6	62	20	-1	2	NA	NA	0.50	C	Grey/green soil, green/brown rc (shale), 2 holes
1082113	5364200	382250.0	-0.01	-0.01	2	58	15	-1	7	NA	NA	0.30	B/C	Grey/green soil, green/white rc, 1 hole
1082114	5364200	382275.0	-0.01		2	45	9	-1	-1	NA	NA	0.40		Grey/green soil (humus), green rc, 1 hole
1082115	5364200	382300.0	-0.01		2	31	8	-1	3	NA	NA	0.30	C	Grey/green soil, green/grey rc, 1 hole
1082116	5364200	382325.0	-0.01		9	652	47	-1	-1	NA	NA	0.50		Grey/brown soil, green/grey rc, clay
1082117	5364200	382350.0	-0.01		7	11	17	-1	-1	NA	NA	0.30	C	Grey/light brown/orange soil, 1 hole
1082118	5364200	382375.0	-0.01		8	38	49	-1	6	NA	NA	0.60	C	Orange/green soil, green rc, 1 hole
1082119	5364200	382400.0	-0.01		3	67	18	-1	7	NA	NA	0.40	A/B	Grey/brown soil, grey/brown rc, 1 hole
1082120	5364200	382425.0	-0.01		5	40	39	-1	-1	NA	NA	0.50	C	Light brown/green soil, quartz rc
1082121	5364200	382450.0	-0.01		3	12	17	-1	-1	NA	NA	0.40	B/C	Light brown soil, quartz gravels, 2 holes
1082123	5364200	382500.0	-0.01		2	6	13	-1	3	NA	NA	0.30	A/B	Quartz gravel, brown/grey rc, 1 hole
1082124	5364200	382525.0	-0.01		2	-3	18	-1	-1	NA	NA	0.40	B	Light brown soil, quartz gravels, rc
1082125	5364200	382550.0	-0.01		2	10	17	-1	-1	NA	NA	0.50	B	Brown/grey soil, quartz rc, 1 hole
1082126	5364200	382575.0	-0.01		3	9	27	-1	-1	NA	NA	0.20	A/B	Orange/white soil (humus), rc, 4 holes
1082127	5364200	382600.0	-0.01		3	5	12	-1	5	NA	NA	0.20	A/B	Light brown/grey soil, quartz gravel, 4 holes
1082128	5364000	382275.0	-0.01	-0.01	9	167	39	-1	3	NA	NA	0.30	B/C	Light brown/green soil, green rc, 2 holes, by road
1082129	5364000	382300.0	-0.01		4	89	16	-1	8	NA	NA	0.70	B/C	Light brown soil, quartz rc
1082130	5364000	382325.0	-0.01		42	1805	134	-1	23	NA	NA	0.40	C	Grey/yellow-brown soil, green rc, to bedrock
1082131	5364000	382350.0	-0.01		14	420	32	-1	28	NA	NA	0.50		Green/grey organic soil, green/grey rc
1082132	5364000	382375.0	-0.01		19	239	47	-1	73	NA	NA	0.50	B/C	Light brown/grey soil, quartz gravel, 2 holes, by creek
1082133	5364000	382400.0	-0.01		3	66	21	-1	2	NA	NA	0.40	C	Grey/white soil, quartz gravel, green b/r, 1 hole
1082134	5364000	382425.0	-0.01		4	34	29	-1	1	NA	NA		B/C	Brown/green soil, green rc, 2 holes
1082135	5364000	382450.0	-0.01		3	96	25	-1	-1	NA	NA	0.40		Grey/white soil, quartz gravel, 2 holes
1082136	5364000	382475.0	-0.01		7	105	42	-1	-1	NA	NA	0.40		Brown organic soil, grey/white soil, 2 holes
1082137	5364000	382500.0	-0.01		6	177	23	-1	-1	NA	NA	0.30	C	Grey soil, grey/white rc, quartz gravel, 2 holes
1082138	5364000	382525.0	-0.01		2	-3	17	-1	-1	NA	NA	0.40	B	Brown soil, quartz
1082139	5364000	382550.0	-0.01		4	9	32	-1	-1	NA	NA	0.30	C	Green/grey soil, grey/white rc, 1 hole
1082140	5364000	382575.0	-0.01		4	4	28	-1	1	NA	NA	0.60	B/C	Quartz gravel, 3 holes
1082141	5364000	382250.0	-0.01		9	57	31	-1	4	NA	NA	0.00	A	Brown swamp, lots of holes
1082142	5364000	382225.0	-0.01		16	62	35	-1	7	NA	NA	0.90	A	Swamp/mud, lots of holes
1082143	5364000	382200.0	-0.01		59	121	79	-1	18	NA	NA	0.70	C	Green organic soil, green rc (shale), 1 hole
1082144	5364000	382175.0	-0.01		33	109	88	-1	33	NA	NA	0.60	C	Brown/green soil, green rc (shale), 1 hole
1082145	5364000	382150.0	-0.01		22	112	77	-1	10	NA	NA		C	Brown organic soil, green rc
1082146	5364000	382125.0	-0.01		14	251	46	-1	6	NA	NA	0.60	B/C	Brown/white/grey soil, grey/white rc, 2 holes
1082147	5364000	382100.0	-0.01		4	20	20	-1	11	NA	NA	0.40	B	Brown soil, quartz gravel, 3 holes
1082148	5364000	382075.0	-0.01		4	26	22	-1	-1	NA	NA	0.40	B	Brown soil, quartz gravel
1082149	5364000	382050.0	-0.01		14	57	39	-1	-1	NA	NA	0.70	C	Brown organic soil, shale rc, 2 holes
1082151	5364000	382025.0	-0.01		3	8	17	-1	-1	NA	NA	0.20	C	Brown soil, white/grey rc, 1 hole

1082152	5364000	382000.0	-0.01	-0.01	5	12	17	-1	-1	NA	NA	0.40	B	Brown soil, quartz gravel, 3 holes
1082153	5364000	381975.0	-0.01	-0.01	5	13	22	-1	-1	NA	NA	0.60	B	Brown soil, quartz gravel, 2 holes, near creek
1082154	5364000	381950.0	0.18	0.21	8	22	30	-1	1	NA	NA	0.30	B	Brown soil, quartz gravel, 3 holes
1082155	5364000	381925.0	-0.01		3	12	30	-1	-1	NA	NA	0.40	B/C	Brown soil, grey/white rc, 2 holes
1082156	5364000	381900.0	-0.01		5	15	24	-1	5	NA	NA	1.00	C	Brown soil, quartz gravel, 3 holes
1082157	5364000	381875.0	-0.01		15	73	31	-1	2	NA	NA	0.50		Brown soil, quartz gravel, 4 holes
1082158	5364000	381850.0	-0.01		3	12	53	-1	2	NA	NA		C	Grey/white soil, bedrock, 2 holes
1082159	5364000	381825.0	-0.01		5	35	37	-1	3	NA	NA	0.60	B/C	Brown organic soil, quartz gravel, 2 holes
1082160	5364000	381800.0	-0.01		3	11	30	-1	-1	NA	NA	0.40	C	Green organic soil, green rc, 3 holes
1082161	5364000	381775.0	-0.01		5	18	29	-1	-1	NA	NA	1.20	A	Swamp, rc, 4 holes
1082162	5364400	382125.0	-0.01		14	80	63	-1	9	NA	NA	1.10	B/C	Brown/grey soil, some gravel, grey/white rc, beside road
1082163	5364400	382150.0	-0.01		3	189	23	-1	6	NA	NA	0.70	C	Grey/green soil, grey/green/orange rc, to bedrock
1082164	5364400	382175.0	-0.01		19	218	80	-1	8	NA	NA	0.40	C	Brown/green soil, green rc, to bedrock
1082165	5364400	382200.0	-0.01		6	32	26	-1	8	NA	NA	0.70	C	Brown/green soil, green rc, to bedrock, 2 holes
1082166	5364400	382225.0	-0.01		6	23	43	-1	1	NA	NA	0.40	C	Brown/green/grey soil, ornge/green tc, to bedrock
1082167	5364400	382250.0	-0.01		10	624	38	1	15	NA	NA	0.70	C	Grey/green soil, blue/grey rc, to bedrock
1082168	5364400	382275.0	-0.01		62	121	70	-1	28	NA	NA	0.50	B/C	Green/orange soil, green rc, to bedrock, beside creek
1082169	5364400	382300.0	-0.01		51	171	100	-1	24	NA	NA	0.40	C	Orange/green/brown soil, orange/green rc, on road
1082170	5364400	382325.0	-0.01		11	433	59	-1	1	NA	NA	0.60	C	Grey/green soil, green/grey rc, to bedrock
1082171	5364400	382350.0	-0.01		5	18	24	-1	3	NA	NA	0.30	B	Grey/brown soil, green rc, gravels, beside ck, 4 holes
1082172	5364400	382375.0	-0.01		9	24	39	-1	4	NA	NA	0.30	B/C	Grey/orange/brown soil, grey/orange/green rc, to bedrock
1082173	5364400	382400.0	-0.01		4	16	23	-1	3	NA	NA	0.30	C	Grey/green soil, grey/green rc, to bedrock, 3 holes
1082174	5364400	382425.0	-0.01		5	17	27	-1	-1	NA	NA	0.80	B/C	Green/brown soil, quartz rc, old creek bed
1082175	5364400	382450.0	-0.01		3	16	29	-1	-1	NA	NA	0.40	B/C	Green/brown/grey soil, grey/green rc, to bed rock, 5 holes
1082176	5364400	382475.0	-0.01		3	12	23	-1	7	NA	NA	0.20	B	Grey/brown soil, grey/green and quartz rc, old creek
1082177	5364400	382500.0	-0.01		5	15	27	-1	6	NA	NA	0.50	B	Grey/brown soil, green/grey and quartz rc
1082178	5364400	382525.0	-0.01		6	13	29	-1	5	NA	NA	0.50	B/C	Green/grey soil, Grey and quartz rc
1082179	5364400	382550.0	-0.01		4	15	31	-1	-1	NA	NA	1.10	B/C	Grey/white soil, grey/green rc
1082180	5364400	382575.0	-0.01		22	18	29	-1	-1	NA	NA	0.40	B	Grey/brown soil, grey and quartz rc, to bedrock, 4 holes
1082181	5364400	382600.0	0.64	0.65	6	20	32	-1	-1	NA	NA	0.50	B	Grey/brown soil, grey/white rc, to bed rock, 4 holes
1082182	5364400	382625.0	-0.01	-0.01	4	14	27	-1	-1	NA	NA	0.40	B	Brown/grey soil, grey and quartz rc, to bedrock, 2 holes
1082183	5364400	382650.0	-0.01		4	11	25	-1	3	NA	NA		B/C	Grey/brown/green soil, grey rc, 2 holes
1082184	5364400	382675.0	-0.01		4	9	24	-1	4	NA	NA	0.30	B	Brown/grey soil, grey and quartz rc, to bedrock
1082185	5364400	382700.0	-0.01		7	13	28	-1	4	NA	NA	0.40	A/B	Grey/brown soil, grey and quartz rc, to bedrock, 4 holes
1082186	5363800	382375.0	-0.01		18	414	41	-1	3	NA	NA	0.40	C	Green/brown soil, green rc (shale), 2 holes
1082187	5363800	382350.0	-0.01		9	49	30	-1	1	NA	NA	0.60	C	Green/grey soil, green/grey rc, 2 holes
1082188	5363800	382325.0	-0.01		174	848	344	-1	17	NA	NA	0.50	C	Green/grey organic soils, clay, 2 holes
1082189	5363800	382300.0	-0.01		8	25	25	-1	1	NA	NA	0.40	B/C	Brown soil, quartz gravel, 2 holes
1082190	5363800	382275.0	-0.01		10	113	38	-1	5	NA	NA	0.60		Brown/grey soil, quartz gravel, 2 holes
1082191	5363800	382250.0	-0.01		16	244	108	-1	3	NA	NA	0.80	B	Brown soil, quartz gravel, to bedrock, 3 holes
1082192	5363800	382225.0	-0.01		8	73	241	-1	6	NA	NA		B	Quartz gravel, creek bed, 3 holes
1082193	5363800	382200.0	-0.01		10	104	38	-1	8	NA	NA			Brown soil, quartz gravel, off line, 3 holes
1082194	5363800	382175.0	-0.01		82	170	52	-1	5	NA	NA		C	Organic soil, clay, green rc, 2 holes
1082195	5363800	382150.0	-0.01		105	199	208	-1	-1	NA	NA	1.20		Brown soil, quartz gravel, green/grey rc, 4 holes
1082196	5363800	382125.0	-0.01		31	83	83	-1	-1	NA	NA	0.70	C	Brown/green soil, green rc, 2 holes
1082197	5363800	382100.0	-0.01		26	86	65	-1	-1	NA	NA	0.60		Brown/green soil, green rc, 3 holes
1082198	5363800	382075.0	-0.01		25	92	68	-1	1	NA	NA	0.70	B/C	Brown/green soil, pale green rc, 3 holes
1082199	5363800	382050.0	-0.01		31	117	104	-1	15	NA	NA	0.60	C	Brown/green soil, green rc, 2 holes
1082201	5363800	382025.0	-0.01		33	128	77	-1	4	NA	NA	0.40	C	Brown soil, green rc, 3 holes

1082202	5363800	382000.0	-0.01		18	68	41	-1	18	NA	NA	C	Brown organic soil, near creek bed
1082203	5363800	381975.0	-0.01		14	69	41	-1	26	NA	NA	0.50	C	Brown/green soil, green rc, creek bed, 3 holes
1082204	5363800	381950.0	-0.01		10	41	38	-1	2	NA	NA	0.40	B/C	Green/brown soil, white rc, 2 holes
1082205	5363800	381925.0	-0.01		6	16	32	-1	-1	NA	NA	0.50		Brown/Green soil, green rc and quartz, creek bed, 2 holes
1082206	5363800	381900.0	-0.01		15	57	49	-1	3	NA	NA	0.40	C	Brown soil, quartz gravels, rc, 3 holes
1082207	5363800	381875.0	-0.01		7	20	31	-1	-1	NA	NA	0.30	C	Grey organic soil, grey/white rc, 2 holes
1082208	5363800	381850.0	-0.01		10	20	27	-1	-1	NA	NA	0.50	B	Brown soil, quartz gravel, 3 holes
1082209	5363800	381825.0	-0.01		9	17	26	-1	-1	NA	NA	0.40	B	Brown soil, quartz gravels, 4 holes
1082210	5363800	381800.0	-0.01		23	82	54	-1	12	NA	NA	0.40	B	Brown/grey soil, quartz gravel, 4 holes
1082211	5363800	381775.0	-0.01		10	79	149	-1	5	NA	NA	0.40		Brown/grey soil, 3 holes
1082212	5363800	381750.0	-0.01		5	21	29	-1	6	NA	NA	0.40	B/C	Grey/brown soil, white/grey rc, 2 holes
1082213	5363800	381725.0	-0.01		13	15	21	-1	4	NA	NA	0.40	B	Brown soil, quartz gravels, 2 holes
1082214	5363800	381700.0	-0.01		6	24	22	-1	1	NA	NA	0.30	B	Brown soil, quartz gravles, 3 holes
1082215	5363800	381675.0	-0.01		7	28	41	-1	3	NA	NA	0.30	C	Brown soil, green rc, quartz gravels, to bedrock, 2 holes
1082216	5363800	381650.0	-0.01		9	39	91	-1	13	NA	NA	0.40	C	Brown/green soil, green rc, 2 holes
1082217	5363800	381625.0	-0.01		23	69	65	-1	41	NA	NA	0.40	C	Brown organic soil, green rc, 2 holes
1082218	5363800	381600.0	-0.01		17	64	771	-1	-1	NA	NA	0.40	C	Green/brown soil, green rc, 3 holes
1082219	5363800	382600.0	-0.01	-0.01	8	13	26	-1	-1	NA	NA	0.40	A/B	Brown soil, quartz gravel, 3 holes
1082220	5363800	382575.0	-0.01		5	11	29	-1	-1	NA	NA	0.50	B/C	Brown/grey soil, quartz gravel, 3 holes
1082221	5363800	382550.0	-0.01		18	66	44	-1	1	NA	NA	0.40	C	Green/brown soil, green rc, 2 holes
1082222	5363800	382525.0	-0.01		8	38	73	-1	-1	NA	NA	0.40	C	Green/grey soil, green rc, to bedrock, 2 holes
1082223	5363800	382500.0	-0.01		11	41	43	-1	-1	NA	NA	0.40	B/C	Green/brown soil, quartz gravel, green rc, 2 holes
1082224	5363800	382475.0	-0.01		9	131	33	-1	6	NA	NA	0.50	B	Brown soil, quartz gravel, creek bed, 3 holes
1082225	5363800	382450.0	-0.01		8	211	17	-1	-1	NA	NA	0.30	B	Grey/white soil, white rc, 2 holes
1082226	5363800	382425.0	-0.01		20	1050	57	-1	23	NA	NA	0.70	C	Green/brown soil, green rc, 2 holes
1082227	5363800	382400.0	-0.01		11	73	29	-1	12	NA	NA	0.60		Green/brown soil, green rc (shale), 2 holes, on road
1082228	5367100	382000.0	-0.01	-0.01	9	10	47	-1	-1	NA	NA	0.80	C	Grey soil, grey/white rc, to bedrock, 4 holes
1082229	5367100	382025.0	-0.01		6	11	36	-1	1	NA	NA	0.60	B	Grey soil, grey rc, to bedrock, 3 holes
1082230	5367100	382050.0	0.03		5	15	29	-1	-1	NA	NA		B	Grey soil, quartz gravel, to bedrock, 3 holes, cliff face
1082231	5367100	382075.0	-0.01		13	20	46	-1	-1	NA	NA	0.60	B	Brown soil, white/orange rc, to bedrock, 2 holes
1082232	5367100	382100.0	-0.01		12	15	39	-1	1	NA	NA	0.60	C	Brown/grey soil, orange rc, 2 holes
1082233	5367100	382125.0	-0.01		7	12	27	-1	-1	NA	NA		B	Grey/brown soil, grey rc
1082234	5367100	382150.0	-0.01		13	10	48	-1	1	NA	NA		B	Grey/brown soil, 3 holes
1082235	5367100	382175.0	-0.01		9	8	22	-1	-1	NA	NA	0.40	C	Brown/grey soil, to bedrock, 3 holes
1082236	5367100	382200.0	0.02		12	13	19	-1	-1	NA	NA		B	Brown/grey soil, to bedrock, 4 holes, cliff face
1082237	5367100	382225.0	-0.01		11	13	17	-1	-1	NA	NA	0.20	B	Grey/brown soil, quartz gravels, to bedrock, 3 holes, cliff
1082238	5367100	382250.0	-0.01		8	17	12	-1	-1	NA	NA	0.40	B	Brown/grey soil, grey rc, to bedrock, 4 holes
1082239	5367100	382275.0	-0.01		5	11	9	-1	-1	NA	NA	0.30	A/B	Brown/grey soil, to bedrock, 3 holes
1082240	5367100	382300.0	-0.01		3	-3	4	-1	-1	NA	NA		A/B	Brown/grey soil, 3 holes
1082241	5366900	382000.0	-0.01		10	11	28	-1	-1	NA	NA	0.50	B/C	Brown/green soil, green rc, 3 holes, by creek
1082242	5366900	382025.0	0.05	0.02	3	48	11	1	-1	NA	NA	0.40	C	Brown/grey soil, grey rc, to bedrock, 3 holes, near creek
1082243	5366900	382050.0	0.03		6	49	21	-1	-1	NA	NA	0.60	C	Grey/brown orange soil, to bedrock, 2 holes
1082244	5366900	382075.0	-0.01		7	15	22	-1	-1	NA	NA	0.50	C	Green/orange soil, green rc, 3 holes
1082245	5366900	382100.0	0.03		14	13	22	-1	-1	NA	NA	0.50	C	Green/brown soil, green rc, to bedrock, 3 holes
1082246	5366900	382125.0	0.04	0.01	19	12	31	-1	2	NA	NA	0.50	C	Brown/green soil, to bedrock, 2 holes
1082247	5366900	382150.0	0.03		25	18	28	-1	1	NA	NA	0.40	C	Brown/green soil, green rc, to bedrock, 3 holes
1082248	5366900	382175.0	0.02		12	16	22	-1	-1	NA	NA	0.60	C	Brown/green soil, green/grey rc, to bedrock, 2 holes
1082249	5366900	382200.0	0.15	0.17	45	14	39	-1	1	NA	NA	0.60	C	Brown/green soil, green rc, 2 holes
1082251	5366900	382225.0	0.13	0.11	47	14	39	-1	-1	NA	NA	0.50	C	Brown/green/orange soil, rc, 1 hole

1082252	5366900	382250.0	0.03		43	14	17	-1	5	NA	NA	0.50		Brown/green/orange soil, green rc, to bedrock, 2 holes
1082253	5366900	382275.0	0.03		31	30	37	-1	5	NA	NA	0.40	B	Brown soil, white rc, to bedrock, 3 holes
1082254	5366900	382300.0	-0.01		30	19	44	-1	6	NA	NA	0.50	C	Brown/grey/orange soil, green rc, to bed rock, 3 holes
1082255	5366900	382325.0	-0.01	0.02	31	-3	36	-1	-1	NA	NA	0.50	C	Orange/green soil, rc, to bedrock, 3 holes
1082256	5366900	382350.0	0.03		18	14	29	-1	-1	NA	NA	0.60	C	Grey soi, rc, to bedrock, 2 holes
1082257	5366900	382375.0	0.02		5	10	31	-1	1	NA	NA	0.60	C	Orange/brown soil, orange rc, to bedrock, 2 holes
1082258	5366900	382400.0	0.03		3	9	19	-1	-1	NA	NA	0.60	B/C	Grey soil, white rc, to bedrock
1082259	5366900	382425.0	-0.01		4	-3	8	-1	-1	NA	NA		B	Brown soil, quartz gravels, to bed rock, 3 holes
1082260	5366900	382450.0	0.02		5	9	46	-1	2	NA	NA		B	Grey soil, quartz rc, 3 holes
1082261	5366900	382475.0	-0.01		7	7	28	-1	2	NA	NA	0.30	A/B	Brown soil, quartz gravel (creek bed), 4 holes
1082262	5366900	382500.0	-0.01	-0.01	5	7	15	-1	-1	NA	NA	0.30	A/B	Brown soil, quartz gravel, to bed rock, 3 holes
1082263	5365200	381600.0	0.02		12	19	11	-1	-1	NA	NA	0.50	C	Green/orange/brown soil, green rc, to bedrock
1082264	5365200	381625.0	-0.01		13	39	34	-1	-1	NA	NA	0.60	C	Green/orange/brown soil, green/orange rc
1082265	5365200	381650.0	-0.01		12	18	32	-1	3	NA	NA	0.60	C	Green/orange/brown soil, green/orange rc, to bedrock
1082266	5365000	381725.0	-0.01		8	8	14	-1	1	NA	NA	0.30	B/C	Green/brown soil, green rc, to bedrock, 4 holes
1082267	5365000	381750.0	-0.01	-0.01	4	9	26	-1	-1	NA	NA	0.50	C	Green/brown soil, green/brown/black rc, 4 holes
1082268	5365000	381775.0	-0.01		3	15	28	-1	2	NA	NA	0.70	B/C	Grey/brown/orange soil, green/orange rc to bedrock
1082269	5364800	381800.0	-0.01		41	71	22	-1	3	NA	NA	0.80	B/C	Green/grey soil, green rc (clay)
1082270	5366700	382000.0	-0.01	-0.01	2	5	16	-1	4	NA	NA	0.40	B	Grey/brown soil, grey/white rc, to bedrock, 4 holes
1082271	5366700	382025.0	-0.01		8	22	28	-1	5	NA	NA	0.20	A/B	Grey soil (humus), grey/green rc, to bedrock, 4 holes
1082272	5366700	382050.0	-0.01		44	31	44	-1	3	NA	NA	0.40	C	Green/black soil, green/grey rc, to bedrock, beside creek
1082273	5366700	382075.0	0.02		26	18	33	-1	9	NA	NA	1.30	C	Green/brown/red soil, green/red rc, to bedrock, 2 holes
1082274	5366700	382100.0	-0.01		30	17	41	-1	7	NA	NA	0.70	C	Brown/orange soil, green/brown rc, to bed rock
1082275	5366700	382125.0	-0.01		63	24	40	-1	7	NA	NA	1.10	A/B	Brown soil, to bedrock, in swamp, 2 holes
1082276	5366700	382150.0	-0.01		4	11	51	-1	5	NA	NA	0.60	C	Grey/orange/green soil, green rc, to bedrock
1082277	5366700	382175.0	-0.01		6	17	19	-1	4	NA	NA	0.25	C	Grey/orange/brown soil, green/grey rc, to bedrock, 3 holes
1082278	5366700	382200.0	-0.01	-0.01	5	14	16	-1	2	NA	NA	0.70	C	Green/grey/brown soil, grey/green rc, to rock
1082279	5366700	382225.0	0.02		19	12	34	-1	10	NA	NA	0.50	C	Green/brown soil, grey/white rc, (clay), to bedrock
1082280	5366700	382250.0	-0.01		54	13	60	-1	12	NA	NA	1.00	C	Green/brown soil, green rc, beside creek
1082281	5366700	382275.0	-0.01	-0.01	78	32	69	-1	9	NA	NA	1.40	C	Green/brown soil, green rc, (clay)
1082282	5366700	382300.0	-0.01		16	7	27	-1	9	NA	NA	0.60	C	Green/orange/brown soil, green/brown rc, to bedrock
1082283	5366700	382325.0	-0.01		51	3	37	-1	51	NA	NA	0.40	C	Green/orange/brown soil, green/orange rc, to bedrock
1082284	5366700	382350.0	-0.01		6	23	21	-1	3	NA	NA	0.20	A/B	Grey/brown soil, grey/white rc, 6 holes (rocky)
1082285	5366700	382375.0	-0.01		6	10	9	-1	5	NA	NA	0.60	B	Grey/brown soil, quartz rc, to bedrock
1082286	5366700	382400.0	-0.01		12	17	12	-1	30	NA	NA	0.20	B/C	Grey/brown soil, green/grey rc
1082287	5366700	382425.0	-0.01		80	24	16	-1	36	NA	NA	0.20	B/C	Green/orange/brown soil, orange rc, to bedrock
1082288	5366700	382450.0	-0.01		14	20	31	-1	6	NA	NA	0.20	B	Grey/brown soil, grey/green rc
1082289	5366500	382000.0	-0.01		5	16	21	-1	2	NA	NA	0.30	B	Grey/brown soil, grey/green rc, to bedrock, 3 holes
1082290	5366500	382025.0	-0.01		2	10	17	-1	2	NA	NA	0.60	B/C	Brown/green soil, green rc, to bedrock, 3 holes
1082291	5366500	382050.0	0.02		50	123	41	1	12	NA	NA	0.70	B/C	Brown soil, green/white rc, to bedrock
1082292	5366500	382075.0	0.05	0.06	13	30	26	-1	2	NA	NA	0.70	C	Grey/green/brown soil, green rc, to bedrock
1082293	5366500	382100.0	-0.01		3	15	18	-1	4	NA	NA	0.60	C	Brown/orange/green soil, brown/green rc, to bedrock
1082294	5366500	382125.0	-0.01		14	11	12	-1	6	NA	NA	0.70	C	Green/brown soil, green/white rc, to bedrock
1082295	5366500	382150.0	-0.01		7	25	18	1	4	NA	NA	0.20	A/B	Brown soils, green rc, to bedrock
1082296	5366500	382175.0	0.03		7	8	14	-1	3	NA	NA	0.30	A/B	Brown/grey soil, green rc, 3 holes
1082297	5366500	382200.0	-0.01	-0.01	10	31	28	-1	4	NA	NA	0.20	A/B	Brown soil, green/grey rc, 4 holes
1082298	5366500	382225.0	-0.01		7	16	24	-1	-1	NA	NA	0.20	B/C	Grey/brown soil, grey/orange rc, 4 holes
1082299	5366500	382250.0	-0.01		110	15	53	-1	8	NA	NA	1.00	C	Green soil, green rc, beside ck
1082301	5366500	382275.0	-0.01		37	10	32	-1	15	NA	NA	0.80	C	Green soil, green rc, to bedrock

1082302	5366500	382300.0	-0.01		22	10	24	-1	17	NA	NA	1.00	C	Green/pale brown soil, green rc
1082303	5366500	382325.0	-0.01	-0.01	4	6	32	-1	3	NA	NA	0.50	B	Brown/green soil, brown/green rc, beside creek, 3 holes
1082304	5366500	382350.0	-0.01		16	13	20	-1	8	NA	NA	1.00	C	Green/brown soil, green rc, to bedrock
1082305	5366500	382375.0	-0.01		16	10	18	-1	8	NA	NA	1.00	C	Green/brown soil, green rc, to bedrock
1082306	5366500	382400.0	0.04	0.01	20	11	26	-1	10	NA	NA	1.30	B/C	Brown/green soil, green rc
1082308	5366500	382425.0	-0.01		5	7	22	-1	6	NA	NA	1.10	A/B	Brown soil, quartz rc, poor sample
1082309	5366500	382450.0	-0.01		4	4	16	-1	10	NA	NA	0.30	B	Grey soils, grey rc, to bedrock, 2 holes
1082310	5366500	382475.0	-0.01		3	-3	9	-1	6	NA	NA	0.40	B	Grey soil, quartz rc, to bedrock
1082311	5366500	382500.0	-0.01	-0.01	12	37	29	-1	4	NA	NA	0.20	A/B	Grey/brown soil, grey rc, cliff, 3 holes
1082312	5364500	382000.0	-0.01		5	34	47	-1	-1	NA	NA	0.40	C	Brown soil, green rc
1082313	5364500	381975.0	-0.01		2	38	36	-1	-1	NA	NA	0.40	B/C	Brown/white soil, green/white rc
1082314	5364500	381950.0	-0.01		2	45	47	-1	-1	NA	NA		C	Brown soil, green/white rc
1082315	5364500	381925.0	-0.01		2	24	38	-1	1	NA	NA	0.60	C	Grey/brown soil, grey/green/orange rc
1082316	5364500	381900.0	-0.01		2	12	16	-1	-1	NA	NA	0.70	B/C	Grey/white soil
1082317	5364500	381875.0	-0.01		6	104	20	-1	3	NA	NA	0.70	C	Grey/white soil, quartz rc
1082318	5364500	381850.0	-0.01		26	81	16	-1	2	NA	NA	0.80	B/C	White soil, quartz rc
1082319	5364500	381825.0	-0.01		2	6	9	-1	2	NA	NA	1.00	B/C	Brown soil, quartz rc
1082320	5364500	381800.0								NA	NA	0.50		No sample. Scree
1082321	5364500	381775.0								NA	NA	0.70		No sample. Scree
1082322	5364500	381750.0	-0.01		2	30	9	1	-1	NA	NA	0.80		Brown sandy soil, quartz rc
1082323	5364400	382587.5	-0.01	-0.01	9	9	28	-1	1	NA	NA	0.80	B/C	Grey soil
1082324	5364400	382600.0	-0.01		3	9	20	-1	-1	NA	NA	0.50	B/C	Grey/white/brown soil, quartz rc
1082325	5364400	382612.5	-0.01		2	9	13	1	4	NA	NA	0.50	B/C	Grey/white/yellow soil
1082326	5364400	381962.5	-0.01		7	98	69	-1	-1	NA	NA	0.90	C	Grey/green soil
1082327	5364400	381950.0	-0.01		3	63	41	1	2	NA	NA	0.50	C	Composite of three samples. Yellow/orange clay + Khaki/Gre
1082328	5364400	381938.5	-0.01		-2	12	19	-1	-1	NA	NA	0.70	B/C	Grey/green/white soil
1082329	5364700	381925.0	-0.01		2	9	21	-1	1	NA	NA	0.50	C	White/grey/brown soil
1082330	5364700	381900.0	-0.01		2	19	24	-1	12	NA	NA	0.70	C	White/brown/green soil
1082331	5364700	381875.0	-0.01		-2	12	14	-1	12	NA	NA	0.50	C	White/brown soil, quartz rc
1082332	5364700	381850.0	-0.01		2	7	15	-1	12	NA	NA	0.50	B/C	Grey/brown soil
1082333	5364700	381825.0	-0.01		8	46	16	1	9	NA	NA	0.60	B/C	Brown soil, quartz rc
1082334	5364700	381800.0	0.05		7	38	17	-1	2	NA	NA	0.80	B/C	Brown soils, rc
1082335	5364700	381775.0	0.04		7	64	26	-1	3	NA	NA	0.80	C	Brown/green soil
1082336	5364700	381750.0								NA	NA			No sample. Scree
1082337	5366900	382187.5	-0.01		13	18	28	-1	8	NA	NA	0.90	C	White/brown soil, brown rc
1082338	5366900	382200.0	0.05		47	12	46	-1	4	NA	NA	0.90	C	Red/brown/orange soil, brown/orange rc
1082339	5366900	382212.5	0.08		33	13	45	-1	5	NA	NA	0.70	C	Brown/orange/white soil, white rc
1082340	5366900	382225.0	0.06		68	20	51	-1	4	NA	NA		C	Brown/orange/white soil, brown/white rc
1082341	5366900	382237.5	0.03		59	29	44	-1	2	NA	NA		B	Brown/orange soil, white rc
1082342	5365300	381900.0	-0.01		2	15	49	-1	1	NA	NA	0.50	C	White soil, white/orange rc
1082343	5365300	381875.0	-0.01		3	23	55	-1	-1	NA	NA	0.60	B/C	White/brown soil, white rc
1082344	5365300	381850.0	-0.01		3	32	40	-1	-1	NA	NA	0.60	B/C	White/brown soil, white rc
1082345	5365300	381825.0	-0.01		2	15	27	-1	2	NA	NA	0.70	C	White soil, white rc
1082346	5365300	381800.0	-0.01		2	26	65	-1	2	NA	NA	0.70	C	Orange/brown soil, white/green rc
1082347	5365300	381775.0	-0.01		2	23	39	-1	3	NA	NA	0.90	C	White/brown soil, white rc
1082348	5365300	381750.0	-0.01		2	20	22	-1	-1	NA	NA	1.00	C	White/orange soil, white/orange rc
1082349	5365300	381725.0	-0.01	-0.01	3	26	52	1	1	NA	NA	1.00	C	Grey/white soil, grey/white rc
1082351	5365300	381700.0	-0.01		3	18	18	-1	-1	NA	NA	0.40	B/C	Brown/white/orange soil, white rc
1082352	5365300	381675.0	-0.01	-0.01	2	16	33	-1	-1	NA	NA	0.70	B/C	Orange/brown soil, white/brown rc

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1082353	5365300	381650.0	-0.01		2	17	10	1	2	NA	NA	0.40	B/C	Brown/white soil, white rc
1082354	5365300	381625.0	-0.01		7	23	28	-1	2	NA	NA	0.80	C	Orange soil, orange rc
1082355	5365300	381600.0	-0.01		12	25	59	-1	2	NA	NA	0.90	C	Orange soil

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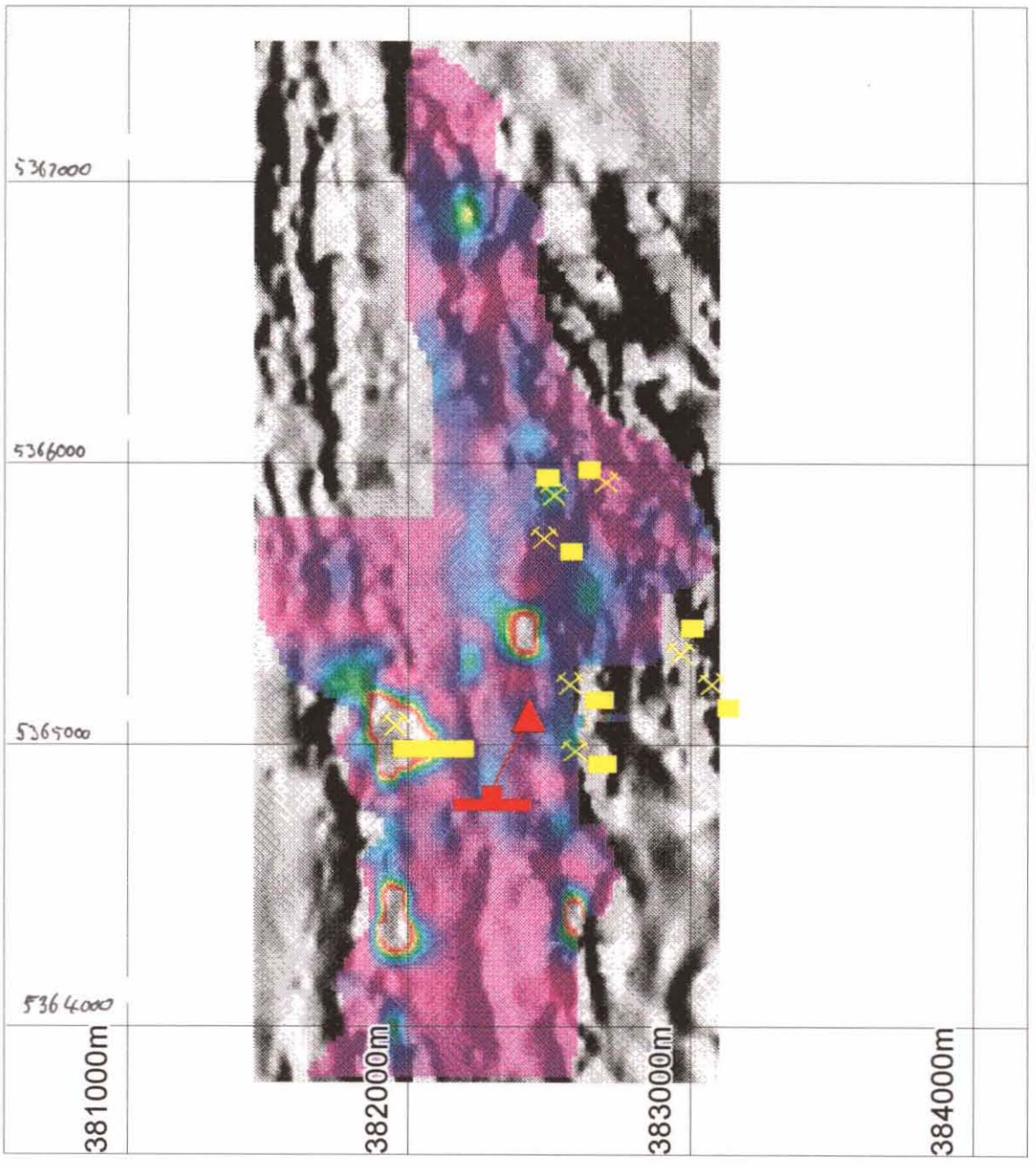
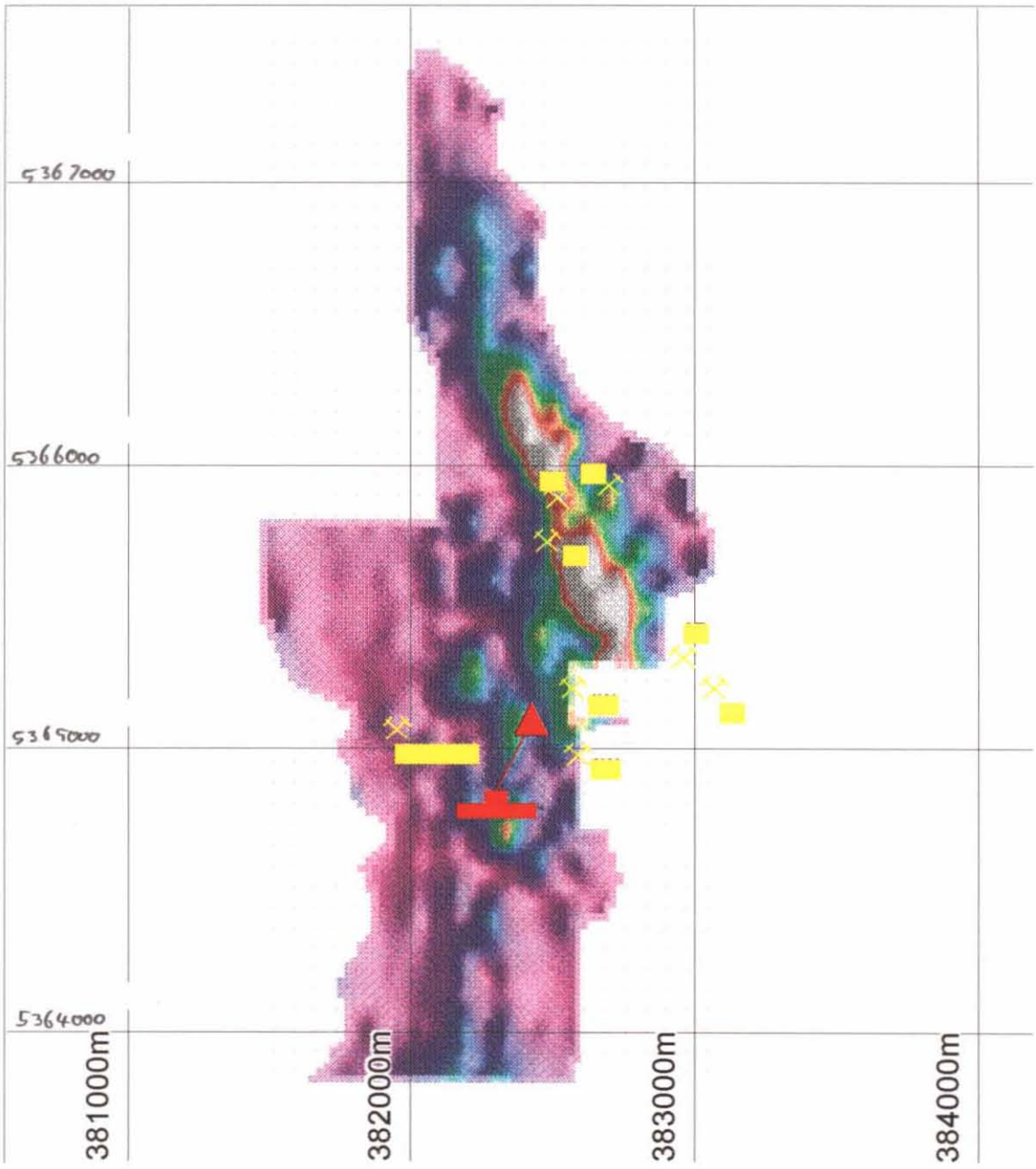
APPENDIX 3

C-horizon soil sample colour images

Red Hills Soils – Au on Helimag 1 Vertical Derivative Image



Red Hills Soils – Cu Image



5 cm

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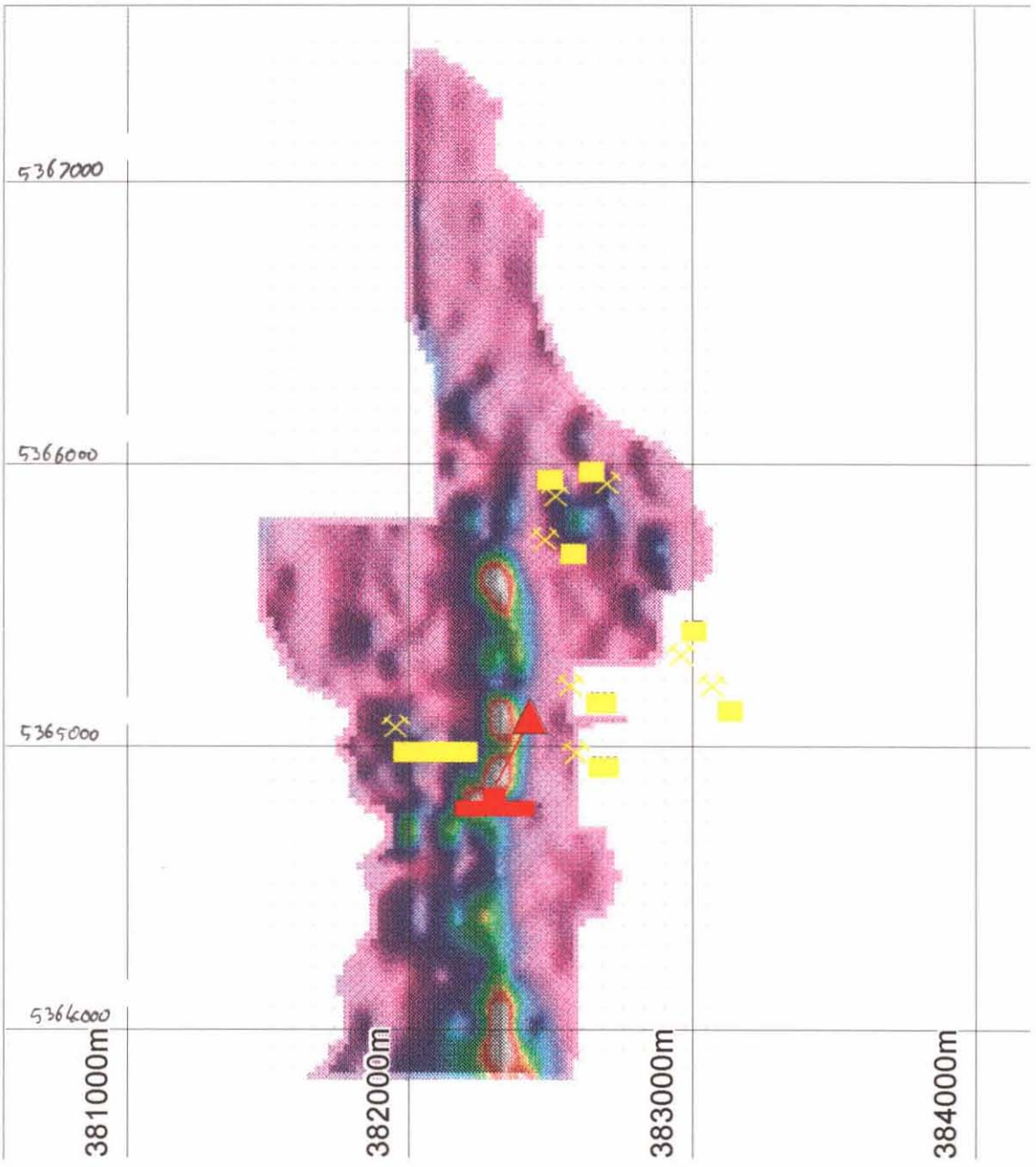
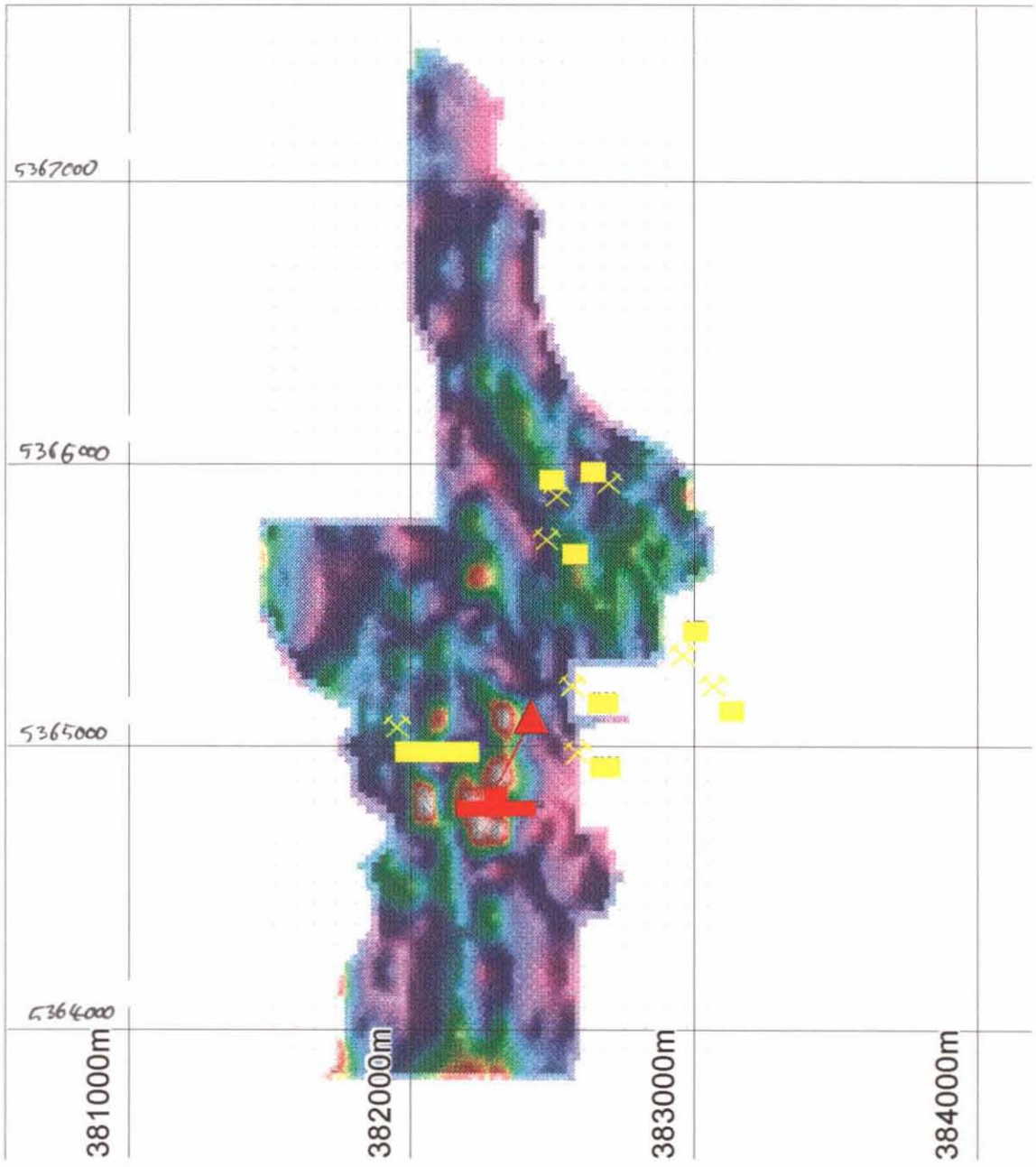
Red Hills Soils – Pb Image

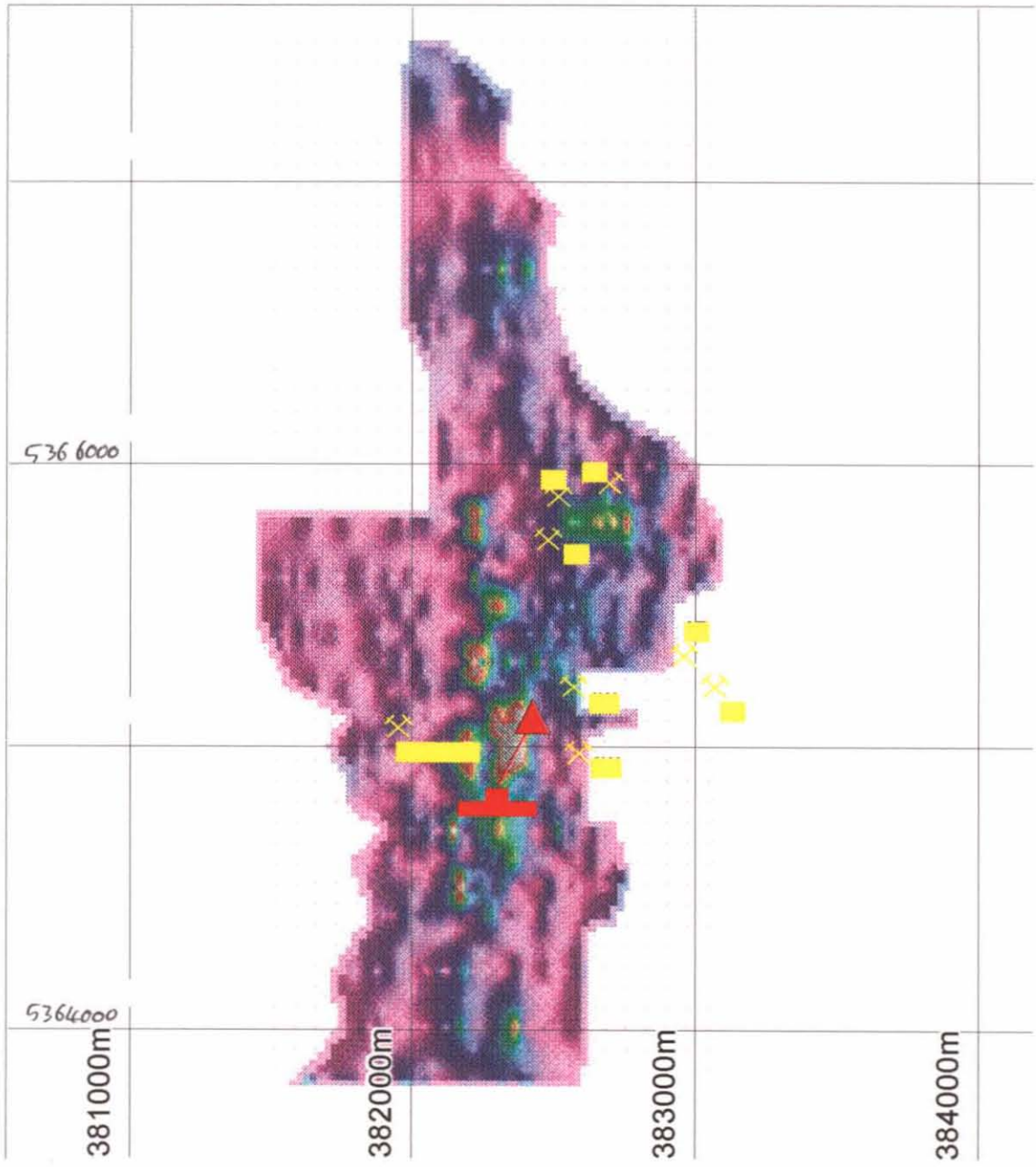


5 cm

Red Hills Soils – Zn Image



Red Hills Soils – As Image



5 cm

APPENDIX 4

Red Hills rock chip sample analyses

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Samp_Id	Reg_North	Reg_East	AG_A	AS_A	CU_A	PB_A	ZN_A	P_X	TI_X	V_X	ZR_X	AU_G
1080182	5365470	383200	1	-50	11	46	85	150	1900	36	206	-0.01
1080183	5365340	382340	-1	-50	136	15	130	225	1540	96	223	-0.01
1080184	5365340	382340	2	290	10	75	40	155	3420	83	409	-0.01
1080185	5365355	382350	4	1340	44	200	320	260	3230	79	397	0.09
1080186	5365380	382360	22	1950	39	864	320	425	2500	59	288	0.02
1080187	5365395	382375	40	1540	25	877	424	170	1780	42	202	0.05
1080188	5364400	382600	-1	-50	6	6	54	160	1670	12	310	-0.01
1080189	5364400	381950	-1	-50	-2	-3	103	210	1850	14	302	-0.01

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APPENDIX 5

Red Hills Helimag Interpretation

GOLDFIELDS EXPLORATION

GOLDFIELDS EXPLORATION PTY LIMITED
ACN 063 813 932
14 William Street PO Box 862 Kalgoorlie WA 6430 Australia
Telephone: (61 8) 9080 6500 Facsimile: (61 8) 9080 6555

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MEMORANDUM

To : Mike Vicary, Tim Callaghan
From : Mike House
Date : 20 September 2000
Subject : **RED HILLS HELIMAG INTERPRETATION**

Mike, Tim

After completing the interpretation of the Red Hills helimag data I thought I'd briefly describe the different layers of the interpretation, how they were produced and what they mean. I'll also describe the distribution of geomagnetic units and some of the differences between the magnetic interpretation and the 10k geology interpretation. I've also got some thoughts on the Red Hills prospect around RH5 that you may be interested in.

AEROMAGNETIC INTERPRETATION METHODOLOGY

The interpretation procedure adopted is based on the techniques of Isles *et al.* (1989) and involves a three stage process: 1) Delineation of the geometric skeleton (trace trends of magnetic units). 2) Identification and classification of the main structural elements such as faults, folds and lineaments. 3) Interpretation of geomagnetic units\associations. This last stage of the interpretation involves identifying units and regions of similar magnetic signature and assigning to them a lithological significance based on the geological information such as mapping and drill hole samples. The geomagnetic associations typically consist of several rock-types that together form a coherent magnetic package whereas the geomagnetic units usually comprise one (or maybe two) rock-type within a well defined magnetic unit. A number is also added to the end of geomagnetic unit/association code to indicate the magnetic intensity from strong (1), to moderate (2), to weak (3).

The above procedure leads to the construction of a number of different layers or Mapinfo tables which are described below.

RedHills_MagAxes.TAB – This linework table contains all the traces of the axes of magnetic units. The axes are typically interpreted from the RTP-2VD and 1VD images. I don't typically use this table for displays, but it can be useful to show the orientations of the main trends.

RedHills_GeomagUnits.TAB – These regions are essentially buffers around the magnetic axes traces. The widths of these geomag units are constrained by a red and blue plot of the second horizontal derivative. For each polygon there are a number of attribute fields which you'll see when you click on them with the info tool in Mapinfo. These fields are as follows:
ID – number from 1 to 3 where 1 means strongly magnetic and 3 means weakly magnetic
Geomag_Code – A short letter code used to describe the rock type(s) and the magnetic intensity. For example, the code FVLI3 means a weakly magnetic unit of felsic lava and intrusives, FVPY2 means a moderately magnetic unit of felsic pyroclastic.
Magnetic_Signature – E.g. Strongly, moderately or weakly magnetic unit.

Interp_Rock_Types – Longer description of the rock types, usually lifted straight from the 10k interp.
Comments – In this column I've put the geology interpretation rockcode and any other comments about the magnetic signature, for example I've noted if I think a magnetic signature is related to underlying rather than outcropping geology.
Stratigraphic_Group – I've just taken the general stratigraphic grouping from the 10k interpretation.

RedHills_Geomag_Assoc.TAB – As I described above, the associations are broader areas with a generally consistent magnetic signature and typically they comprise a number of related rock types. The associations have the same attributes as the units except for an extra field describing the magnetic texture as either rough or smooth. The reason I have two geomagnetic layers is that it can start looking a bit messy if the units and associations are combined in one table. By having them separate you can either overlay them or you can just turn off the units layer for a more simplified look.

RedHills_Geomag_Assoc_SeeThru.TAB – This is a copy of the association table except with the shading of the polygons made partially transparent so that you can put the magnetics underneath (e.g. a greyscale 1VD image) and still see the interpretation.

RedHills_Mag_Structures.TAB – The structures are defined from numerous images, typically 1VD and 2VD each with several sun angles. I've classified the structures into Faults, Dextral and Sinistral Offsets and Lineaments. I've only inferred a movement direction where I'm pretty sure of the offset, otherwise I just describe truncations and breaks as faults. Lineaments are more diffuse features that track across units without apparent breaks. I haven't bothered to delineate the entire Henty Fault mainly because its not a single line and the boundaries in the associations table cover the extent of this fairly obvious structure.

Images of the geomagnetic units, associations and structures, including legends, are included at the back of this memo.

DISTRIBUTION OF GEOMAGNETIC ASSOCIATIONS AND UNITS

West of the Henty Fault

This region is dominated by the felsic pyroclastic rocks of the Central Volcanic Complex which are typically weakly magnetic although there are numerous magnetic units within these packages which I have interpreted as being either part of the Henty Dyke swarm, or more magnetic pyroclastic units. There are three pyroclastic associations, two of which (north and south) have a slightly more textured appearance and greater magnetic intensity than the central association which is possibly fault bounded by NW to NNW faults. The reduced magnetic signature/texture of this area may indicate a greater amount of cover. Within the northern pyroclastic association a quartz-felspar porphyry unit (suite 111) has been delineated in the 10k geology interpretation. I see no evidence for such an interpretation either in the magnetics or the radiometrics. There could well be a quartz-felspar porphyry unit in this area, but I don't believe its' distribution is similar to that depicted in the geology interpretation. This northern pyroclastic association appears to be truncated or bounded to the south west by a prominent dyke and to the east by the Henty Fault sequence.

Henty Fault Zone

The NNE Henty Fault Zone comprises a number of different magnetic signatures and rock types. In the north the fault zone separates the felsic pyroclastics to the west from the Tyndall

Group felsic lavas to the east. I have interpreted the moderately magnetic NNE-trending magnetic units adjacent to the pyroclastic association as magnetic gabbroic rocks within the fault sequence. Immediately to the east of these units is a non-magnetic sequence between 300 and 120 metres wide. I have split this package, using the radiometrics as a bit of a guide, into Henty Fault sequence rocks (siltstone, sandstone, wacke - SIL_SANa3) and Tyndall Group rocks, even though the magnetic signature is very similar. The fault zone to the south is essentially non-magnetic and interpreted as comprising the non-magnetic SIL_SANa3 association. Where the stratigraphy begins to deviate to the SSE (i.e. Mt Julia), there is a slightly more magnetic unit of the Henty Fault sequence sediments.

East of the Henty Fault – Red Hills

Immediately to the east of the Henty Fault zone is roughly triangular-shaped package of Tyndall Group quartz-feldspar phyric lava. It is obvious from the magnetics that there are several different magnetic signatures and trends within this area and hence a number of associations have been defined. The characteristics of these FVLa associations varies from smooth and non-magnetic to moderately magnetic and textured. It is uncertain what is producing the more magnetic units, but there may be intrusive sequences within the lava that have a greater magnetic intensity. Adjacent to the Henty fault Zone the FVL magnetic units are essentially parallel to its NNE orientation, but away from the fault the quartz-feldspar phyric lava units have a more NNW trend.

To the east of the Tyndall Group rocks there are several north-south-trending weakly magnetic associations, some of which contain more magnetic linear units within them. This group of associations appears to be bounded to the east by either a major north-south structure or stratigraphic discontinuity approximately along 381800 E. The weakly magnetic associations in this package are interpreted to be the fiamme-bearing tuff of ignimbrite type (FVIGa3 - Ccvi) rocks. The more magnetic associations and units are thought to be felsic feldspar- phyric lava and intrusives (FVLIa2,3 – Ccl).

Comparison with the 10K geology interpretation indicates that there are some discrepancies between the magnetics and the geological interpretation, which does not recognise the major north-south structure/contact that bounds this package. Instead, the feldspar-phyric lava and intrusive rocks are interpreted to bend to the southeast across this 381800 E structure and into a weakly magnetic smooth association. I have interpreted this large, weakly magnetic association to the east of 381800 as being all fiamme-bearing tuff of ignimbrite type (FVIGa3), based on its coherent magnetic signature.

Within this FVIGa3 association east of 381800 is a slightly more textured package along the western margin which is thought to result from small units of felsic intrusive rocks. Interestingly, this association also corresponds to an extensive area of albite alteration and a gold in soil anomaly. Other subtle and weakly magnetic units within the larger FVIGa3 association are also interpreted as feldspar-phyric lava and intrusive rocks.

Further east, where the Red Hills drilling is concentrated, the sequence becomes more complex with small packages of felsic pyroclastics (FVPYa2 – Ccv), siltstone-sandstone (SIL_SANa2 – Ccs) and feldspar phyric lavas and intrusives (FVLIa2 – Ccl). The more magnetic parts within the SIL_SAN association are, I suspect, related to pyrrhotite in black shales, rather than the siltstones or sandstones themselves.

The sequence then goes into the strongly magnetic magnetite-chlorite-Kfeldspar altered Red Hills rhyolite dome. I have delineated a number of magnetic units (FVLI_Mt1) within this

association, and several units that underlie the Owen Conglomerate. The Owen Conglomerate is typically weakly magnetic with a smooth texture. I have not attempted to subdivide the Owen Conglomerate because it is magnetically homogenous apart from where you can see underlying magnetic CVC.

Magnetic Structures

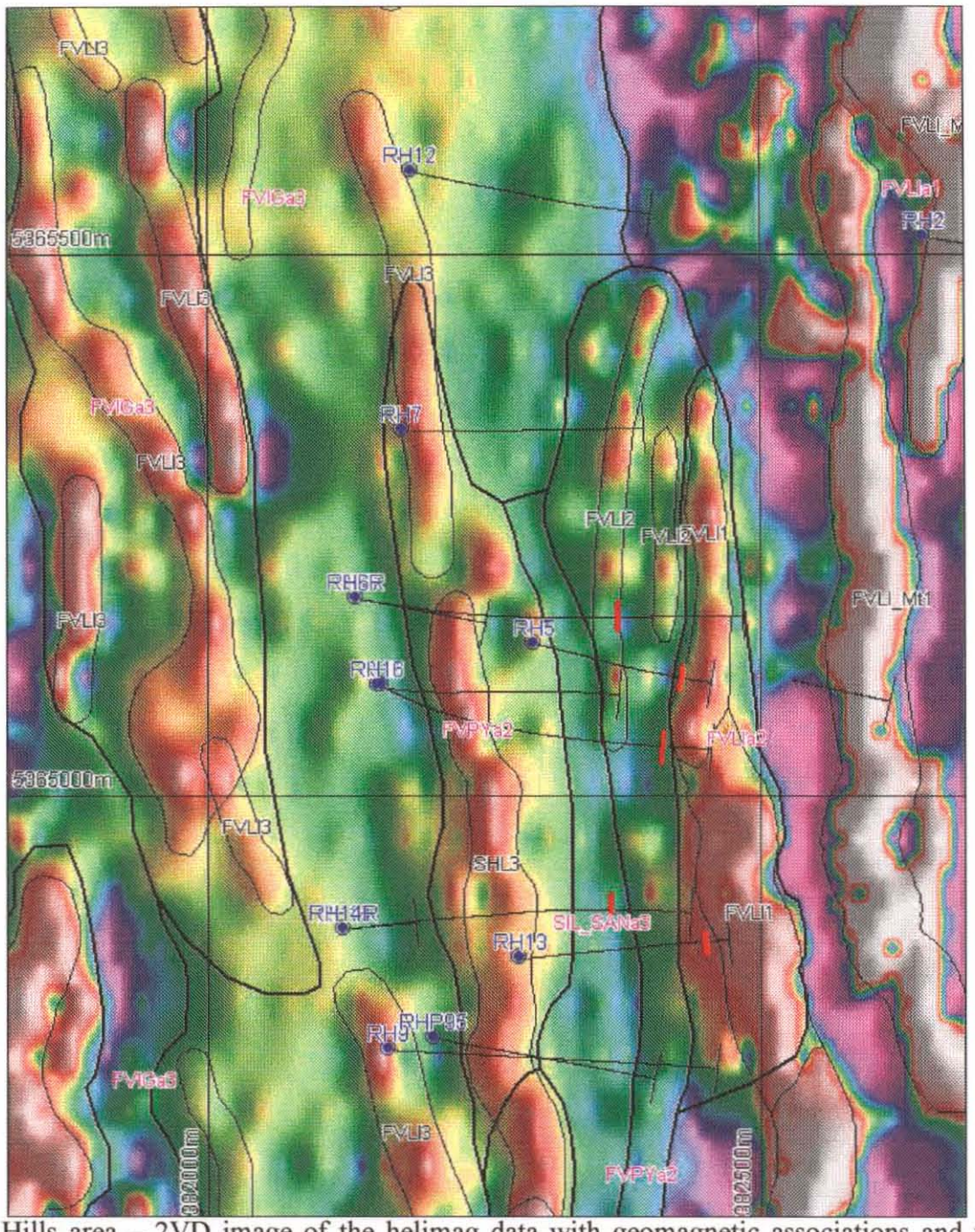
Numerous magnetic structures have been delineated from the helimag data over Red Hills. As the rose diagram at the end of the memo indicates, most of these structures have a NNE orientation (015-025 degrees) sub-parallel to the Henty Fault Zone. The next most common orientation is NE to ENE between 050 and 070 degrees.

MINERALISATION POTENTIAL ALONG STRIKE FROM RH5

Based on the 2VD image of the helimag data, the holes with the best gold intersections (RH5, 6R, 8, 13, 14R) all appear to have passed through the favourable host stratigraphy and intersected the Red Hills rhyolite (See image below). The contact between the Red Hills rhyolite and the overlying pyroclastics is reasonably clear, but there are two weakly magnetic units west of the Red Hills rhyolite contact. I have interpreted these units as feldspar-phyric lava and intrusive rocks (FVLI2) interfingering with the pyroclastic rocks (FVPYa2).

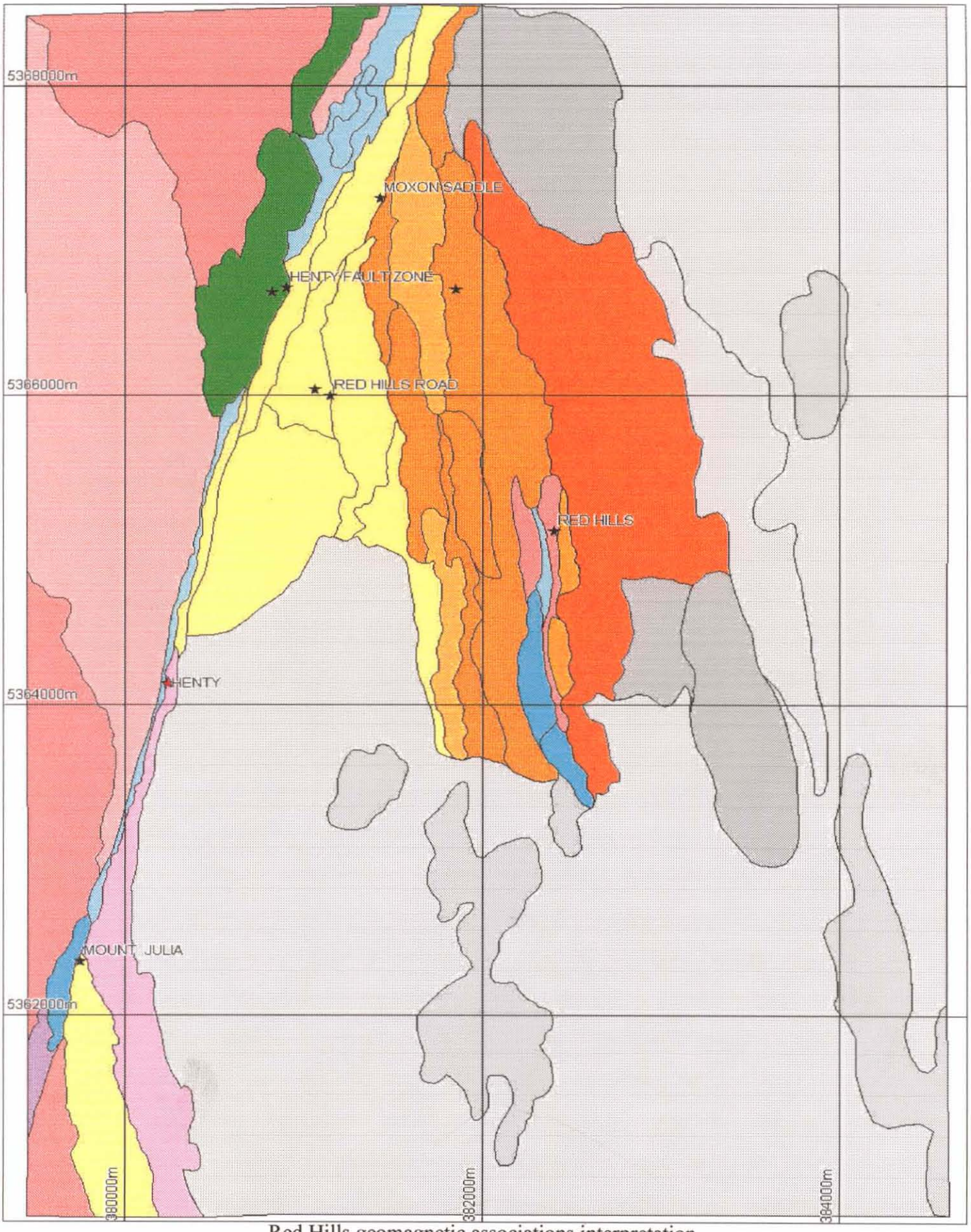
I have indicated on the drill traces (by the red line) the approximate surface projection of the best gold intersections. It appears, from this simplistic approach, that there are two favourable stratigraphic positions. The best position appears to be near the easterly contact between the pyroclastics and the Red Hills rhyolite (RH5, 8, 13), however there are some reasonable intersections in RH14R and RH6R higher up the sequence in the hangingwall. While RH7 seems to have tested the upper favourable horizon, it does not appear to have passed through into the Red Hills rhyolite proper. Therefore, there could be some mineralisation potential along this contact north of RH6R, a strike distance of about 250 metres. There is some anomalous gold in soils results from this area, however the soil results could be transported from one of the old adits above the anomaly.

856048



Red Hills area – 2VD image of the helimag data with geomagnetic associations and units (black outlines), drill-collar locations and drill traces. The surface projection of the best gold mineralisation is shown by the red lines.

5 cm



Red Hills geomagnetic associations interpretation.

5 cm

Red Hills Geomag Associations Legend

FVlGa3
Fiamme-bearing tuff of ignimbrite type
Central Volcanic Complex

FVLa3
Quartz-feldspar phyric lava
Tyndall Group

FVLla1
Mainly feldspar phyric lava & intrusives
Central Volcanic Complex

FVLla2
Mainly feldspar phyric lava & intrusives
Central Volcanic Complex

FVLla3
Mainly feldspar phyric lava & intrusives
Central Volcanic Complex

FVPYa2
Mainly felsic pyroclastic rocks, feldspar phyric
Central Volcanic Complex

FVPYa3
Mainly felsic pyroclastic rocks, feldspar phyric
Central Volcanic Complex

MGa2
Gabbro
Henty Fault Sequence

SCVCa3
Mainly volcaniclastic conglomerate + minor siltstone & volcaniclastic ss
Tyndall Group

SC_SANa1
Mixed assemblage of conglomerate and sandstone, some siltstone
Denison Group - Middle Owen to Upper Owen Conglomerate

SC_SANa2
Mixed assemblage of conglomerate and sandstone, some siltstone
Denison Group - Middle Owen to Upper Owen Conglomerate

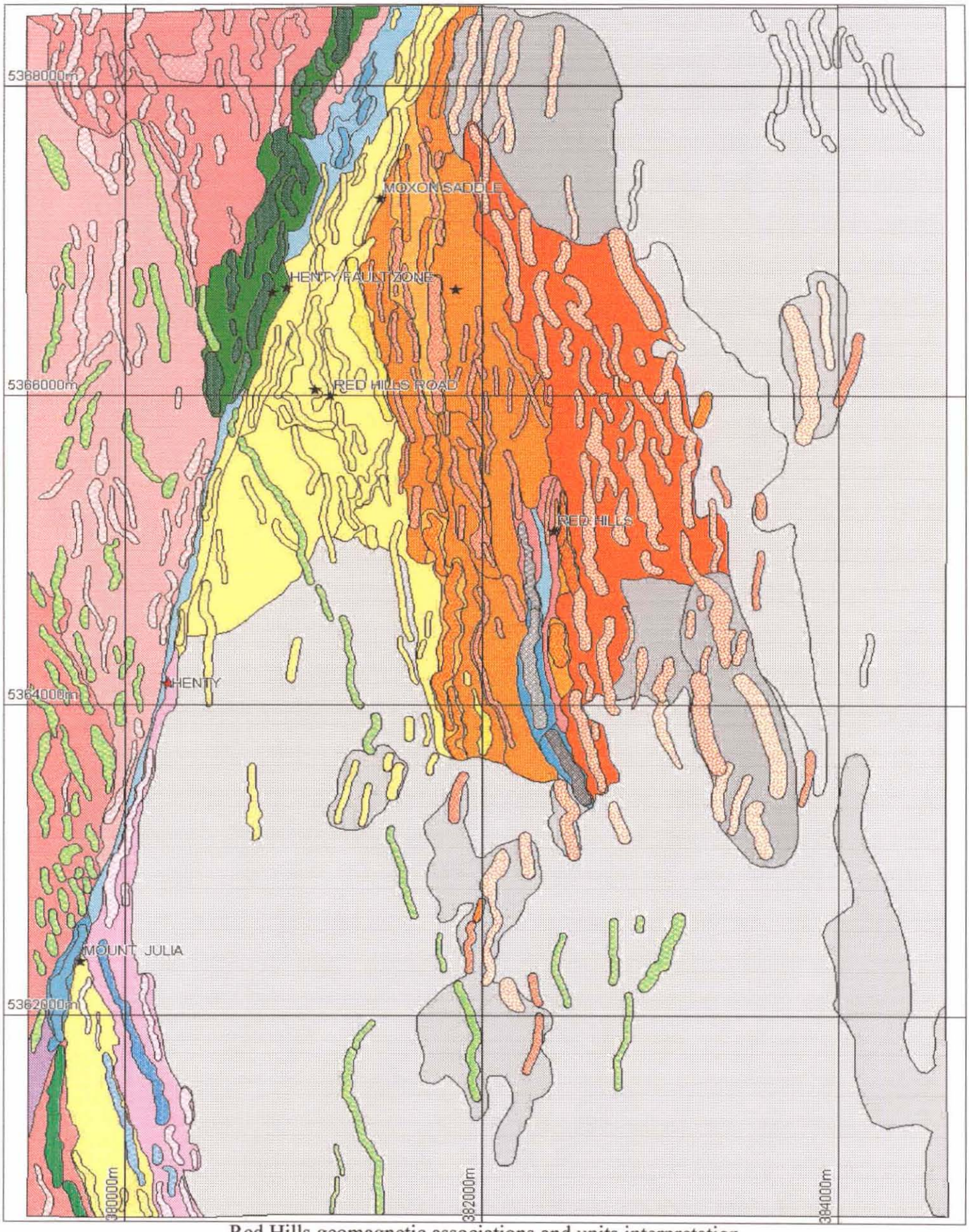
SC_SANa3
Mixed assemblage of conglomerate and sandstone, some siltstone
Denison Group - Middle Owen to Upper Owen Conglomerate

SIL_SANa2
Siltstone, sandstone. wacke
Henty Fault Sequence

SIL_SANa3
Siltstone, sandstone. wacke
Henty Fault Sequence

Ua2
Mainly ultramafics
Central Volcanic Complex

Red Hills geomagnetic associations interpretation legend.



Red Hills geomagnetic associations and units interpretation

5 cm

Red Hills Geomag Units Legend

?

?

DY2
Basalt
Henty Dyke Swarm

DY3
Basalt
Henty Dyke Swarm

FVL2
Quartz-feldspar phyric lava
Tyndall Group

FVL3
Quartz-feldspar phyric lava
Tyndall Group

FVLI1
Mainly felsic felspar phyric lava and intrusives
Central Volcanic Complex

FVLI2
Mainly feldspar phyric lava & intrusives
Central Volcanic Complex

FVLI3
Mainly feldspar phyric lava & intrusives
Central Volcanic Complex

FVLI_Mt1
Magnetite-chlorite-Kspar altered felsic lava and intrusives
Central Volcanic Complex

FVLI_Mt2
Magnetite-chlorite-Kspar altered felsic lava and intrusives
Central Volcanic Complex

FVLI_Mt3
Magnetite-chlorite-Kspar altered felsic lava and intrusives
Central Volcanic Complex

FVPY2
Mainly felsic pyroclastics, feldspar phyric
Central Volcanic Complex

FVPY3
Mainly felsic pyroclastics, feldspar phyric
Central Volcanic Complex

MB_MD2
Andestitic to basaltic intrusive bodies with lavas
Central Volcanic Complex - Anthony Road Andesite

MG2
Gabbro
Henty Fault Sequence

MG3
Gabbro
Henty Fault Sequence

SANV3
Mainly crystal - rich volcanic sandstone (quartz-feldspar phyric)
Tyndall Group

SAN_SIL2
Bedded sandstone - siltstone units
Tyndall Group

SAN_SIL3
Bedded sandstone - siltstone units
Tyndall Group

SCVC3
Mainly volcaniclastic conglomerate with minor siltstone and volcaniclastic sandstone
Tyndall Group

SHL3
Carbonaceous shale
Central Volcanic Complex

SIL_SAN1
Siltstone, sandstone, tuff & agglomerate
Central Volcanic Complex

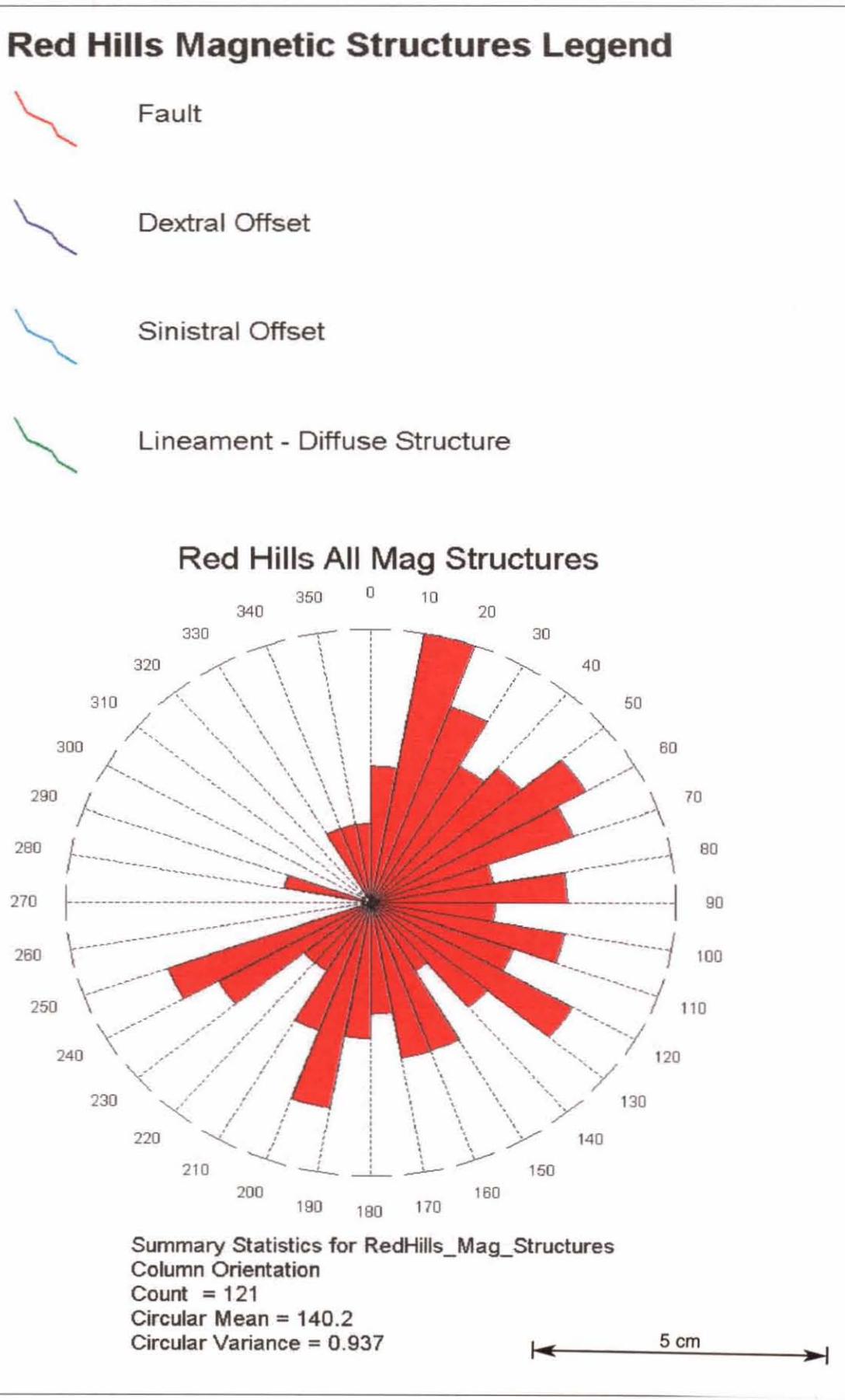
SIL_SAN2
Siltstone, sandstone, tuff & agglomerate
Central Volcanic Complex

SIL_SAN3
Siltstone, sandstone. wacke
Henty Fault Sequence

Red Hills geomagnetic units legend.

Red Hills geomagnetic associations, units and structural interpretation.

5 cm



Red Hills structural legend and rose diagram.

856055

APPENDIX 6

RH20 diamond drill hole logs and analyses

856056

Hole_Id	AMG East	AMG North	AMG RL	Total Depth	Geologist
RH20	381890.00	5365005.00	775.00	295.00	TC

Depth	Azm AMG	Dip
0.00	90.00	-50
39.00	90.00	-48
63.00	90.00	-46.5
95.00	90.00	-45
152.00	93.00	-41.5
182.00	94.00	-39
212.00	94.00	-36.5
242.00	94.00	-32
280.00	94.00	-30

Hole_Id	Sample No	epth From	Depth To	AG_A	AS_A	AU_G	BI_A	CU_A	PB_A	ZN_A
RH20	1082434	24.00	25.00	-1	-50	-0.01	-10	9	29	87
RH20	1082435	25.00	26.00	-1	-50	-0.01	-10	5	14	67
RH20	1082436	26.00	27.00	-1	-50	-0.01	-10	4	17	65
RH20	1082437	27.00	28.00	-1	-50	-0.01	-10	4	5	30
RH20	1082438	28.00	28.70	-1	-50	-0.01	-10	4	10	27
RH20	1082439	98.00	100.00	-1	-50	-0.01	-10	4	38	61
RH20	1082441	100.00	102.00	-1	-50	-0.01	-10	8	2320	112
RH20	1082442	102.00	104.00	-1	-50	-0.01	-10	4	11	89
RH20	1082443	104.00	106.00	-1	-50	-0.01	-10	6	61	80
RH20	1082444	106.00	108.00	-1	-50	-0.01	-10	5	9	92
RH20	1082445	108.00	110.00	-1	-50	-0.01	-10	8	98	229
RH20	1082446	110.00	112.00	-1	-50	-0.01	-10	6	10	70
RH20	1082447	112.00	114.00	-1	-50	-0.01	-10	14	12	53
RH20	1082448	114.00	116.00	-1	-50	-0.01	-10	5	24	54
RH20	1082449	116.00	118.00	1	-50	0.19	-10	9	1230	529
RH20	1082450	118.00	120.00	-1	-50	-0.01	-10	5	16	63
RH20	1082451	120.00	122.00	-1	-50	-0.01	-10	4	8	69
RH20	1082452	122.00	124.00	-1	-50	-0.01	-10	5	8	113
RH20	1082453	124.00	126.00	-1	-50	-0.01	-10	4	7	77
RH20	1082454	126.00	128.00	-1	-50	-0.01	-10	9	37	84
RH20	1082455	128.00	130.00	-1	-50	-0.01	-10	4	36	78
RH20	1082456	130.00	132.00	-1	-50	-0.01	-10	4	78	90
RH20	1082457	132.00	134.00	-1	-50	-0.01	-10	5	83	116
RH20	1082458	134.00	136.00	-1	-50	-0.01	-10	6	92	133
RH20	1082459	136.00	138.00	-1	-50	-0.01	-10	3	5	50
RH20	1082461	138.00	140.00	-1	-50	-0.01	-10	5	6	76
RH20	1082462	223.00	225.00	-1	-50	-0.01	-10	12	43	20
RH20	1082463	225.00	227.00	-1	-50	-0.01	-10	8	43	24
RH20	1082464	227.00	229.00	-1	-50	-0.01	-10	8	15	27

Goldfields Tasmania MRV Formation Codes

Tyndall Group	Zig Zag Hill Fm	Post-eruptive rhyolitic, volcanolithic conglomerate and qtz-crystal rich sandstone. **Ctc**
	Mt Julia Member	Syn-eruptive qtz-feld crystal rich sandstone. **Ctt**
		Massive qtz-phyric rhyolitic lavas, breccias and intrusions. **Ctl**
	Lynchford Member	Syn-eruptive feld crystal rich volcaniclastic sandstone. **Cttl**
		Massive carbonate and marly sediments. **Ccarb**
		Dacitic volcaniclastic sediments. **Cttld**
		Howard's Basalt. Fine grained basaltic andesite dykes, lavas and lithic breccias. **Cb**
CVC (Suite II)	Suite II Porphyry	Qtz-feld-Hbl porphyry. Intrusive, fractionated. **Cp**
	Anthony Road Andesite	Feld-Hbl phyric andesite and breccia , extrusive and intrusive. **Ca**
CVC (Suite I)	Newton Creek Dacites	Dacitic to andesitic volcaniclastic sediments. **Ccv**
		Dacitic, feld phyric to aphyric lavas, breccias and intrusions. **Ccl**
		Dacitic volcaniclastic pumice breccias. **Ccv**
	Spillway Breccia	Coarse polymict and dacitic massflows with some sulphide clasts. **Ccvag**
	Spillway Basalt	Massive to stratified monomictic "fire fountain' basalt breccia. **Cb**
Yolande River Sequence	Footwall pumice Breccia	Massive feld-phyric pumice breccia. **Cymf**
		Vitric siltstones and sandstones. **Cys**

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 phyric
- < - Feldspar - quartz phyric
- > - Quartz - feldspar phyric
- Q - Quartz phyric
- H - Hornblende phyric
- P - Pyroxene phyric
- B - Biotite phyric
- 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)

RGC EXPLORATION PTY LTD

856060

DRILL HOLE No RH20

SHEET _____ OF _____

PROJECT :	Red Hills.
PROSPECT :	
DATE :	
LOGGED BY :	T. Callaghan

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

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16 1/4 1 4 16 32)	ALTERATION (SIL. SER. PY.)	GEOLOGY NOTES	SUMMARY ROCK	SUMMARY ALTERATION
0						Massive, feldspar xtal-pumice lithic VC Breccia. Rhyodacitic pumiceous mass flow. Domainal chl-alb alt. Weathered + limonitic. Poor core recovery.		
10						Cevi	VOLP	03
20						19.0m Puggy fault ± qtz vein Limonitic 20.0m Pumice Breccia. Cevi 20.5m Puggy fault + qtz vein. Limonitic. 21.1m Feldspar xtal-lithic-pumiceous VC Breccia. Domainal chl-alb alt. Late qtz-carb vns. Cevi	FALT VOLP FALT VOLP	04 04
		Fault 26.0m.				25.0 Massive white qtz vein. Minor carbonate-limonite. Broken puggy ground 26.0-26.8m. Fault.	VEIN	08
30						28.7m Massive, feld xtal-pumice lithic VC Brxx. Domainal Alb-chl alt. Cevi	VOLP	130
40								

REMARKS

5 cm

856061

RGC EXPLORATION PTY LTD

DRILL HOLE No RH20

SHEET _____ OF _____

PROJECT :	Red Hills.
PROSPECT :	
DATE :	
LOGGED BY :	T. Callaghan

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

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION (SIL. SER. PY.)	GEOLOGY NOTES	SUMMARY ROCK	SUMMARY ALTERATION
40								
50						52.0m Massive, feldspar phyric dacite intrusive. Minor brecciation + local flow banding. Coarse 2-3mm fold phenocryst ≈ 5%. Fine grained albitised matrix. Ccl	LDFc	A4
60								
70						66.5 Massive, feld xtal-pumice lithic vc breccia. strongly foliated. Alb-chl alt. Minor qtz xtals. Rhyodacitic pumiceous mass flow. Ccvi	VCLP	A3
80						79.4		

REMARKS

5 cm

856062

RGC EXPLORATION PTY LTD

DRILL HOLE No RH20

SHEET _____ OF _____

PROJECT	: Red Hills
PROSPECT	:
DATE	:
LOGGED BY	: T. Callaghan

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

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION (SIL., SER., PY.)	GEOLOGY NOTES	SUMMARY ROCK	SUMMARY ALTERATION
80						Massive, feldspar phyric dacite lava?? flow banded, strongly foliated. Pervasive weak chl alt.		
						Cal	LDFC	03
90								
100		Base metal Corr Vn.						
						107.7 Massive, feld. phyric rhyodacite lava. Orange-brown. Mod albite-silica alteration. 5% late qtz-calcite veins. Minor coarse sphal-gal in veins.		
						Cal	LDFC	A40
110								
120								

REMARKS

5 cm

856063

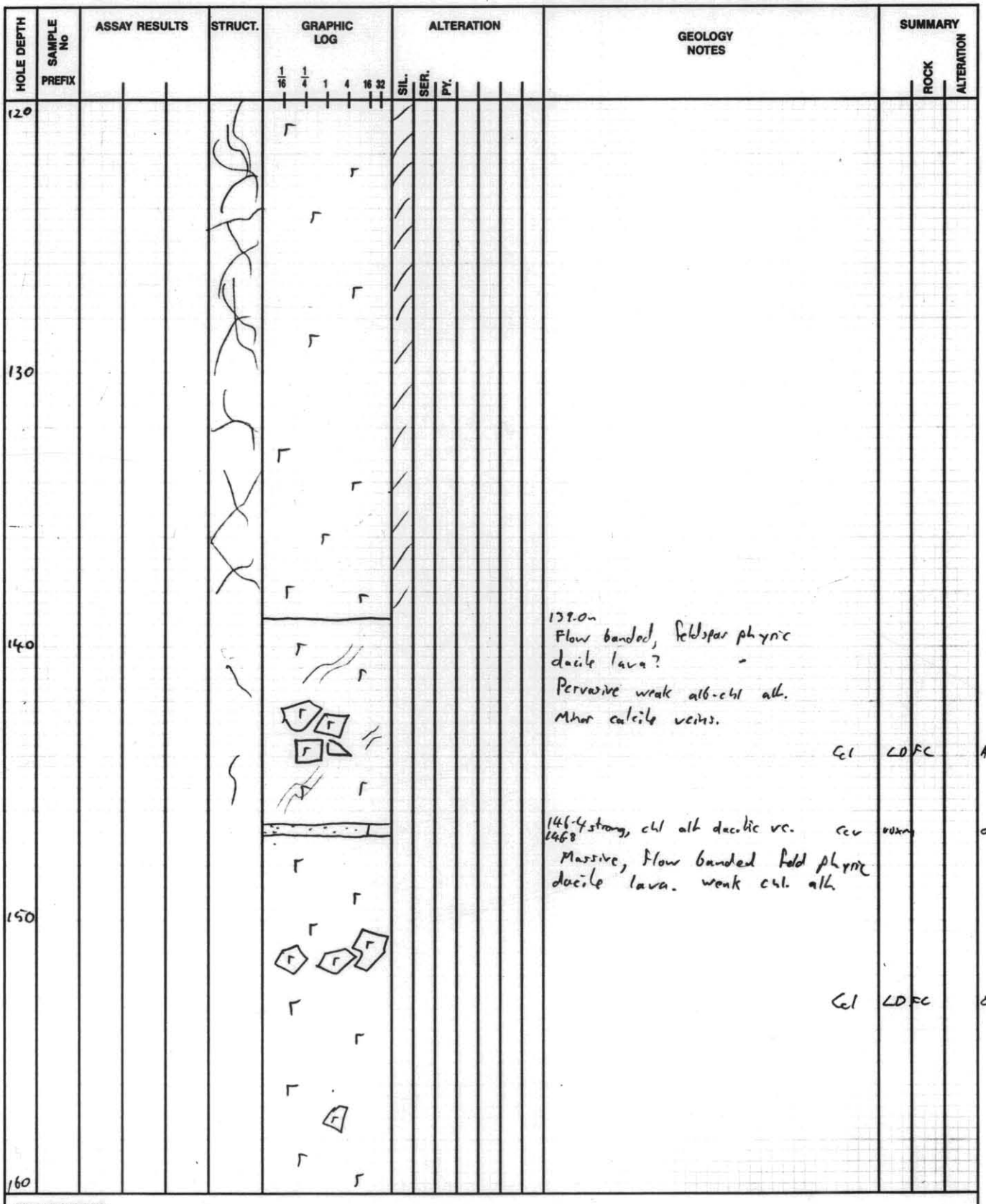
RGC EXPLORATION PTY LTD

DRILL HOLE No RH20

SHEET _____ OF _____

PROJECT	: Red Hills
PROSPECT	:
DATE	:
LOGGED BY	: T. Callaghan

— Bedding
⌊ Cleavage
▲ Foliation
~~~ Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold



REMARKS

5 cm
~~~

856064

RGC EXPLORATION PTY LTD

DRILL HOLE No RH20

SHEET _____ OF _____

PROJECT	: Red Hills
PROSPECT	:
DATE	:
LOGGED BY	: T. Callaghan

— Bedding
⌊ Cleavage
▲ Foliation
~~~ Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION: SIL.	SER.	PY.	GEOLOGY NOTES	SUMMARY: ROCK	ALTERATION
160										
170								173.4 175.0 Massive, feldspar phyric dacite. Weak pervasive ser-alb alt.		
180								Ccl	LO	FC
190								193.7 Feld phyric rhyodacite, CO3 altered feld phenocrysts. Weak, pervasive ser-alb alteration. Ccl	LO	FC
200										

REMARKS

5 cm
~~~

856065

RGC EXPLORATION PTY LTD

DRILL HOLE No RN20

SHEET _____ OF _____

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

PROJECT	: Red Hills
PROSPECT	:
DATE	:
LOGGED BY	: T. Callaghan

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/8, 1/4, 1, 4, 16, 32)	ALTERATION (SIL., SER., PY.)	GEOLOGY NOTES	SUMMARY ROCK	SUMMARY ALTERATION
200						200.7 qtz vein 201 Massive, feldspar phyric rhyodacite lava. Pervasive weak ser-alb alteration. Cc1	VEIN LDFC	Q9 A3
210		sheared contact.				210 Amygdaloidal mafic dyke. Patchy ser-fuchsite alteration. Foliated Eb 212.4 dacite Intrusive. Feld phyric Cc1 212.9 Amygdaloidal mafic dyke. Eb 214.0 Feld-phyric rhyodacitic intrusive. Pervasive weak alb-ser alt. Late calcite vns <1%. Cc1	IB A LDFC IB A IDFC	C3 A33
220						223.2 Pale yellow, rhyodacite. Strong sericite alteration. Strongly foliated. Cc1	IDFC	S7
230						228.4 Feldspar phyric dacite lava. Moderate albite alteration. Cc1 236.6 Dacitic lava ± 40% late Qtz veins feld. phyric Cc1 238.6 Feld phyric dacite.	IDFC IDFC IDFC	A3 A3
240		Qtz vns				234.4		

REMARKS

5 cm

856066

RGC EXPLORATION PTY LTD

DRILL HOLE No RH20

SHEET _____ OF _____

PROJECT	: Red Hills.
PROSPECT	:
DATE	:
LOGGED BY	: T. Callaghan

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

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION: SIL.	SER.	PY.	GEOLOGY NOTES	SUMMARY: ROCK	ALTERATION
240								Massive, pumice-feld x-tal volcaniclastic breccia. Domainal alb-chl. alteration.		
									Ccvi	VOLP
250										
								257.2 Sandy, pumice-lithic vc Brxx. weak albite alteration. Possibly graded to feld-pumice Brxx.??	VOLP	
260			?						Ccvi	
								262.1 feldspar x-tal-pumice lithic vc. Domainal chl-albite alteration		
									Ccvi	VOLP
270										
								276.6 Sandy, feldspar x-tal-pumice rhyodacitic. Strongly foliated.		
280									Ccvi	VOLP

REMARKS

5 cm

856067

RGC EXPLORATION PTY LTD

DRILL HOLE No RH20

SHEET _____ OF _____

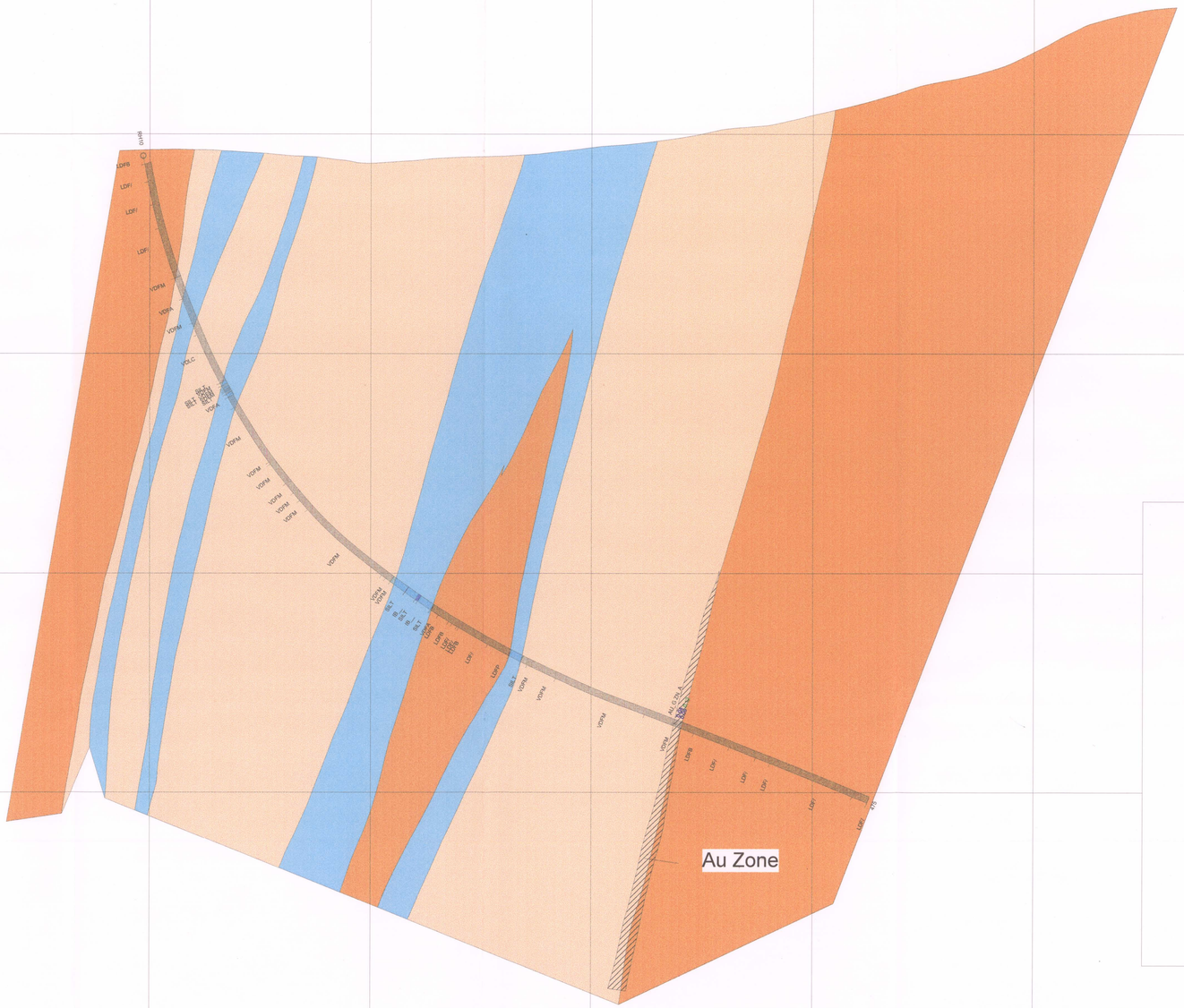
PROJECT	: Mt Juliet
PROSPECT	:
DATE	:
LOGGED BY	: T. Callaghan

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

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION (SIL., SER., PY.)	GEOLOGY NOTES	SUMMARY (ROCK, ALTERATION)
280							
						Increasing 1.7Lx5 (~3%)	
290							
						295.0m EOH	
300							

REMARKS

5 cm



COon	Undifferentiated. - Newton Creek Sandstone
COonc	Mainly pebble conglomerate with minor thinly bedded quartzitic sandstone and pebble sandstone - Newton Creek Sandstone
COonsh	Mainly thinly bedded siltstone, quartzitic sandstone with bands of pebble conglomerate - Newton Creek Sandstone
Ctc	Mainly volcaniclastic conglomerate with minor siltstone and volcaniclastic sandstone. - Upper Tyndall Group / Zig Zag Hill Formation
Cts	Bedded sandstone - siltstone units
Ctt	Mainly crystal - rich volcanic sandstone (quartz-feldspar phyric). - Comstock Tuff and correlates.
Ctl	Quartz-feldspar phyric lava and intrusives
Cttl	Crystal - rich volcanic sandstone (feldspar-pyroxene phyric), lithic-rich bases with minor ash, sandstone and limestone. - Lynchford Member and correlates.
Ctb	Basalt - commonly hematitic and carbonate altered. - Howards Basalt
Ca	Andesitic to basaltic intrusive bodies with lavas & clastic units. Includes feldspar-hornblende-pyroxene phyric types & small chlorite altered dykes. - Anthony Road Andesite
Ccv	Mainly felsic pyroclastic rocks, dominantly feldspar phyric, including pumice bearing tuff & breccia , crystal vitric tuff, vitric tuff & minor shale & sandstone
Ccvl	Mainly felsic felspar phyric lava and intrusives; massive to flow banded or autobrecciated, with rare colmnar jointing
Cb	Basalt lava and breccias
Cymf	Rhyolitic-dacitic massflows, commonly graded. - Yolande River Sequence
Cys	Units of bedded siltstone, sandstone. - Yolande River Sequence
Cp	Quartz-feldspar hornblende porphyry
Chf	Undifferentiated Henty Fault Wedge sequence
Ccarb	Exhalitive carbonate horizon
MZ	Silica - sericite - pyrite - chlorite alteration
MW	Silica - sericite alteration
MQ	Silica - sulphide alteration
MA	Sericite - pyrite - carbonate alteration
AS	Intense albite - silica alteration
fault	Fault

01_4604

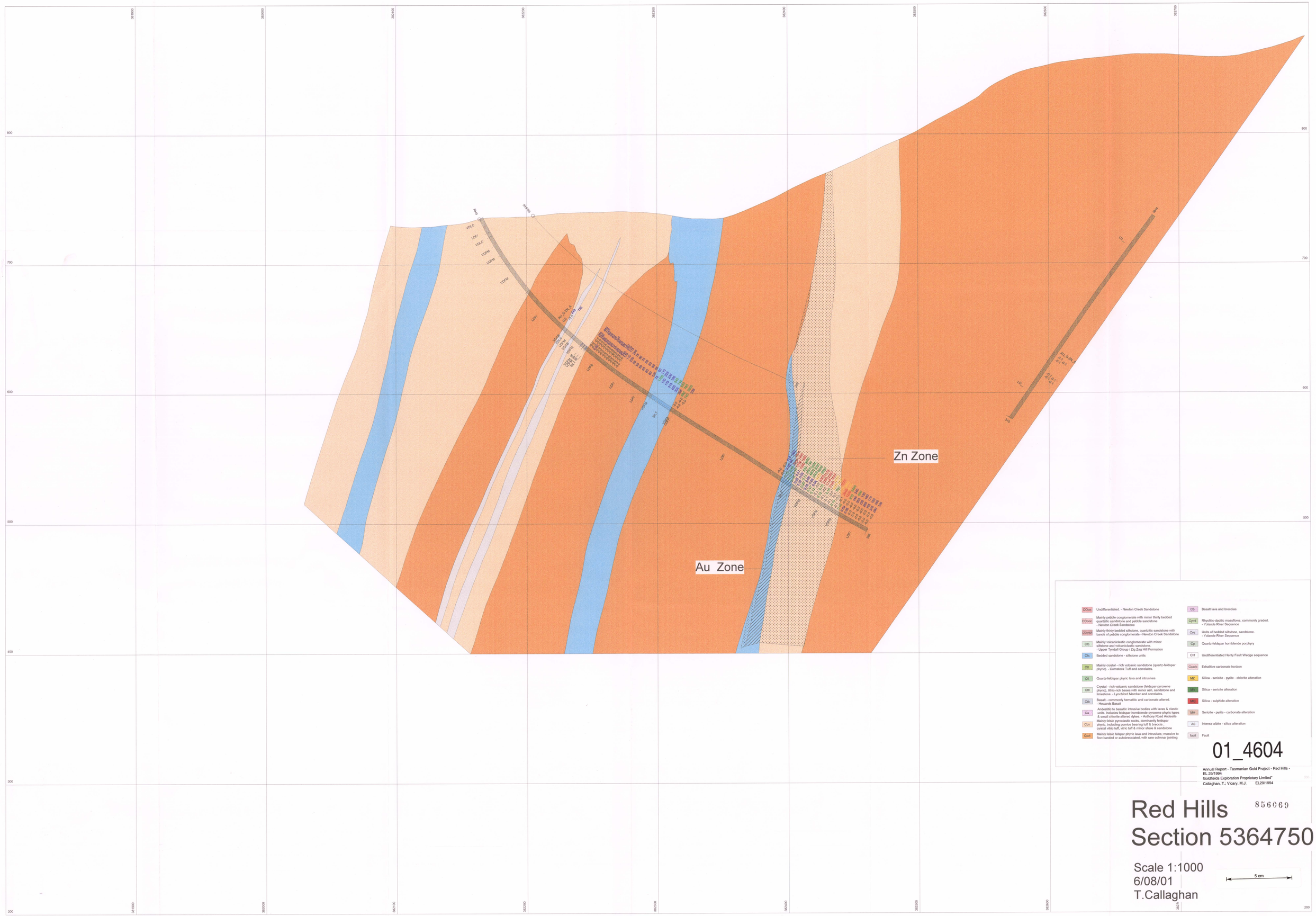
Annual Report - Tasmanian Gold Project - Red Hills - EL 29/1994
Goldfields Exploration Proprietary Limited*
Callaghan, T.; Vicary, M.J. EL29/1994

5 cm

Red Hills section 5364500 N

856668

Scale 1:1000
6/08/01
Projection AMG
T. Callaghan


381900
382000
382100
382200
382300
382400
382500
382600
382700
800
700
600
500
400
300
200
RWB
RWA
VOLC
LSH
VOFM
LSFm
Au Zone
Zn Zone
AU_0.5%_A
ZN_0.5%_A
AU_0.5%_A
ZN_0.5%_A
AU_0.5%_A
ZN_0.5%_A

Au Zone

Zn Zone

COun	Undifferentiated. - Newton Creek Sandstone
COcgsc	Mainly pebble conglomerate with minor thinly bedded quartzitic sandstone and pebble sandstone - Newton Creek Sandstone
COmsp	Mainly thinly bedded siltstone, quartzitic sandstone with bands of pebble conglomerate - Newton Creek Sandstone
Clc	Mainly volcaniclastic conglomerate with minor siltstone and volcaniclastic sandstone. - Upper Tyndall Group / Zig Zag Hill Formation
Cbs	Bedded sandstone - siltstone units
Clt	Mainly crystal - rich volcanic sandstone (quartz-feldspar phyric). - Comstock Tuff and correlates.
Cll	Quartz-feldspar phyric lava and intrusives
Cltl	Crystal - rich volcanic sandstone (feldspar-pyroxene phyric), lithic-rich bases with minor ash, sandstone and limestone. - Lynchford Member and correlates.
Clb	Basalt - commonly hematitic and carbonate altered. - Howards Basalt
Ca	Andesitic to basaltic intrusive bodies with lavas & clastic units. Includes feldspar-hornblende-pyroxene phyric types & small chlorite altered dykes. - Anthony Road Andesite
Ccv	Mainly felsic pyroclastic rocks, dominantly feldspar phyric, including pumice bearing tuff & breccia ; crystal vitric tuff, vitric tuff & minor shale & sandstone
Clvsl	Mainly felsic felspar phyric lava and intrusives; massive to flovi banded or autobrecciated, with rare colmnar jointing
Cb	Basalt lava and breccias
Cymf	Rhyolitic-dacitic massflows, commonly graded. - Yolande River Sequence
Cys	Units of bedded siltstone, sandstone. - Yolande River Sequence
Cp	Quartz-feldspar hornblende porphyry
Clvf	Undifferentiated Henty Fault Wedge sequence
Ccarb	Exhalitive carbonate horizon
MZ	Silica - sericite - pyrite - chlorite alteration
MU	Silica - sericite alteration
MS	Silica - sulphide alteration
MA	Sericite - pyrite - carbonate alteration
AS	Intense albite - silica alteration
fault	Fault

01_4604

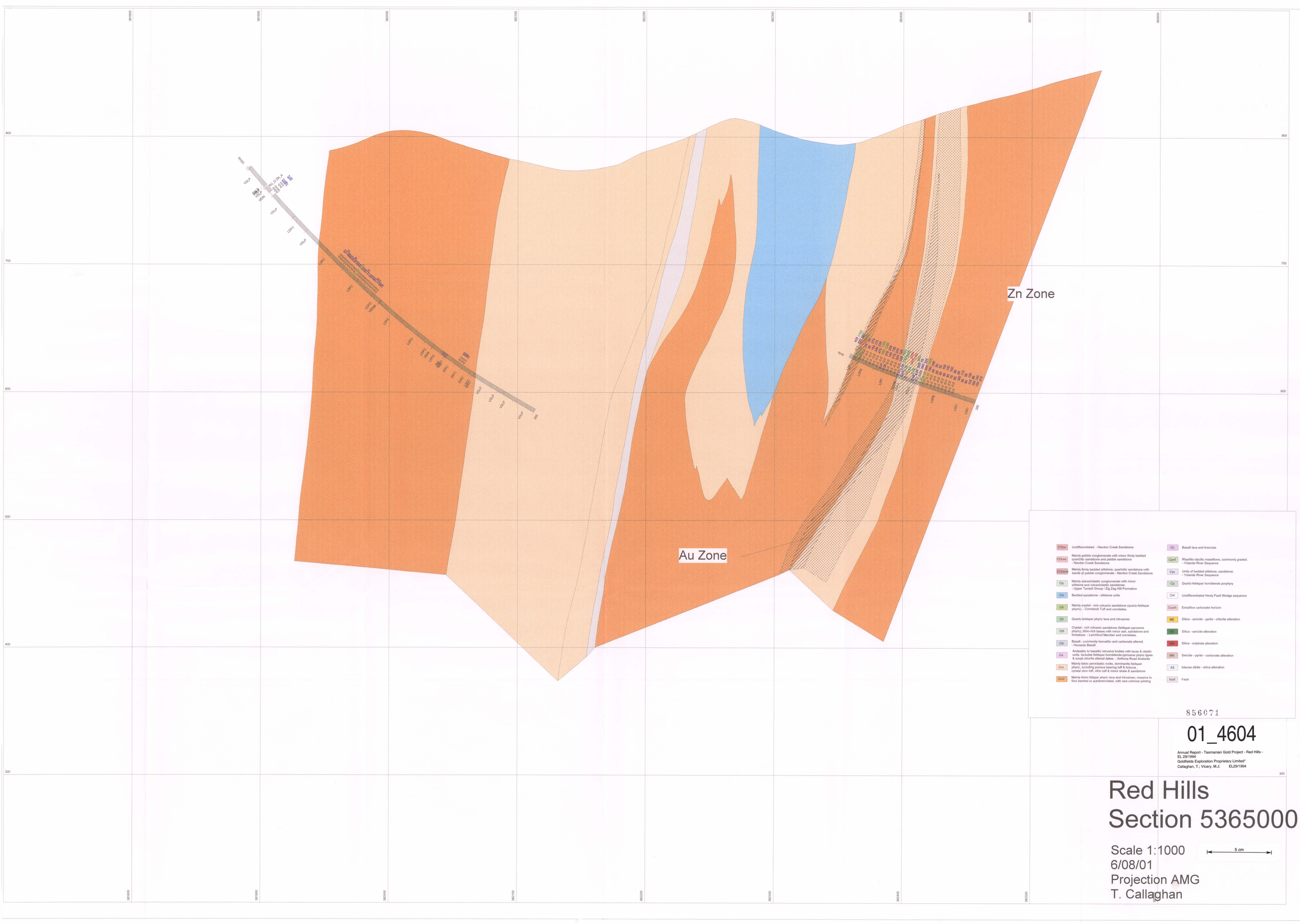
Annual Report - Tasmanian Gold Project - Red Hills - EL 29/1994
Goldfields Exploration Proprietary Limited*
Callaghan, T.; Vicary, M.J. EL29/1994

856670

Red Hills
Section 5364850N

Scale 1:1000
6/08/01
T. Callaghan

5 cm



COun	Undifferentiated. - Newton Creek Sandstone
COsnc	Mainly pebble conglomerate with minor thinly bedded quartzitic sandstone and pebble sandstone - Newton Creek Sandstone
COsnfs	Mainly thinly bedded siltstone, quartzitic sandstone with bands of pebble conglomerate - Newton Creek Sandstone
Clc	Mainly volcaniclastic conglomerate with minor siltstone and volcaniclastic sandstone. - Upper Tyndall Group / Zig Zag Hill Formation
Cls	Bedded sandstone - siltstone units
Clfr	Mainly crystal - rich volcanic sandstone (quartz-feldspar phyric). - Comstock Tuff and correlates.
Clf	Quartz-feldspar phyric lava and intrusives
Cltl	Crystal - rich volcanic sandstone (feldspar-pyroxene phyric), lithic-rich bases with minor ash, sandstone and limestone. - Lynchford Member and correlates.
Clb	Basalt - commonly hematitic and carbonate altered. - Howards Basalt
Cia	Andesitic to basaltic intrusive bodies with lavas & clastic units. Includes feldspar-hornblende-pyroxene phyric types & small chlorite altered dykes. - Anthony Road Andesite
Cov	Mainly felsic pyroclastic rocks, dominantly feldspar phyric, including pumice bearing tuff & breccia , crystal vitric tuff, vitric tuff & minor shale & sandstone
Clmf	Mainly felsic felspar phyric lava and intrusives; massive to flow banded or autobrecciated, with rare colmnar jointing
Clb	Basalt lava and breccias
Cysrf	Rhyolitic-dacitic massflows, commonly graded. - Yolande River Sequence
Cys	Units of bedded siltstone, sandstone. - Yolande River Sequence
Cp	Quartz-feldspar hornblende porphyry
Ctrf	Undifferentiated Henty Fault Wedge sequence
Ccarb	Exhalitive carbonate horizon
MZ	Silica - sericite - pyrite - chlorite alteration
MY	Silica - sericite alteration
MS	Silica - sulphide alteration
MA	Sericite - pyrite - carbonate alteration
AS	Intense albite - silica alteration
fault	Fault

856671

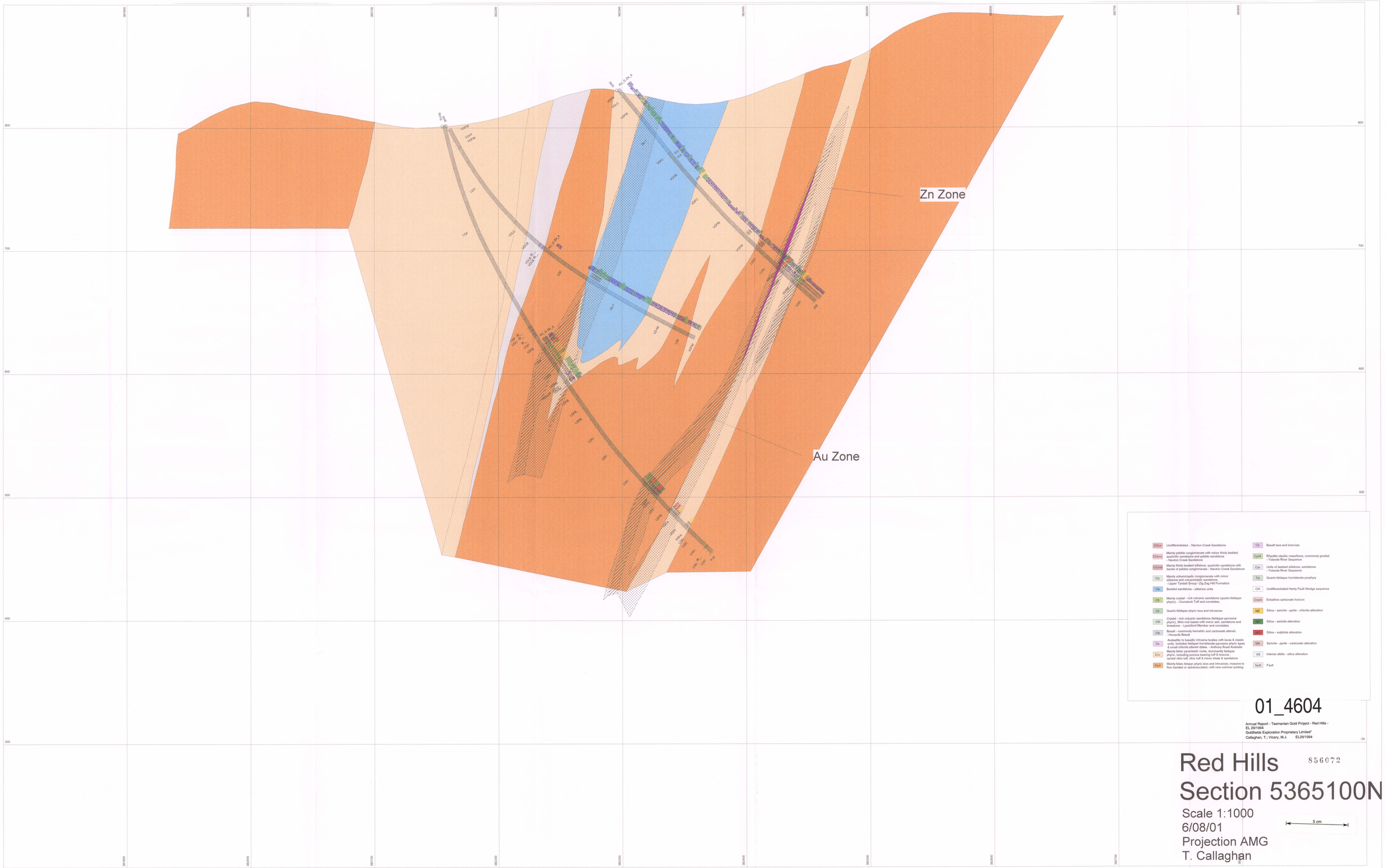
01_4604

Annual Report - Tasmanian Gold Project - Red Hills - EL 29/1994
Goldfields Exploration Proprietary Limited*
Callaghan, T.; Vicary, M.J. EL29/1994

Red Hills
Section 5365000

Scale 1:1000
6/08/01
Projection AMG
T. Callaghan

5 cm



- COcn — Undifferentiated. - Newton Creek Sandstone
- COcnc — Mainly pebble conglomerate with minor thinly bedded quartzitic sandstone and pebble sandstone - Newton Creek Sandstone
- COcnss — Mainly thinly bedded siltstone, quartzitic sandstone with bands of pebble conglomerate - Newton Creek Sandstone
- Clc — Mainly volcanic/lastic conglomerate with minor siltstone and volcaniclastic sandstone. - Upper Tyndall Group / Zig Zag Hill Formation
- Cls — Bedded sandstone - siltstone units
- Clt — Mainly crystal - rich volcanic sandstone (quartz-feldspar phyric). - Cornelback Tuff and correlates.
- Cfl — Quartz-feldspar phyric lava and intrusives
- Clfl — Crystal - rich volcanic sandstone (feldspar-pyroxene phyric), lithic-rich bases with minor ash, sandstone and limestone. - Lyrebird Member and correlates.
- Clb — Basalt - commonly hematitic and carbonate altered. - Howards Basalt
- Cs — Andesitic to basaltic intrusive bodies with lavas & clastic units. Includes feldspar-hornblende-pyroxene phyric types & some quartz-feldspar phyric types. - Mount Read Andesite
- Cdv — Mainly felsic pyroclastic rocks, dominantly feldspar phyric, including pumice bearing tuff & breccia. - crystal vitric tuff, vitric tuff & minor shale & sandstone
- Cccf — Mainly felsic feldspar phyric lava and intrusives; massive to flow banded or autobrecciated, with rare colonnar jointing
- Clb — Basalt lava and breccias
- Cyrlif — Rhyolitic-dacitic massiflows, commonly graded. - Yolande River Sequence
- Cys — Units of bedded siltstone, sandstone. - Yolande River Sequence
- Cg — Quartz-feldspar hornblende porphyry
- Clf — Undifferentiated Henty Fault Wedge sequence
- Cosehi — Exhalitive carbonate horizon
- MZ — Silica - sericite - pyrite - chlorite alteration
- MV — Silica - sericite alteration
- MSV — Silica - sulphide alteration
- MA — Sericite - pyrite - carbonate alteration
- AS — Intense albite - silica alteration
- fault — Fault

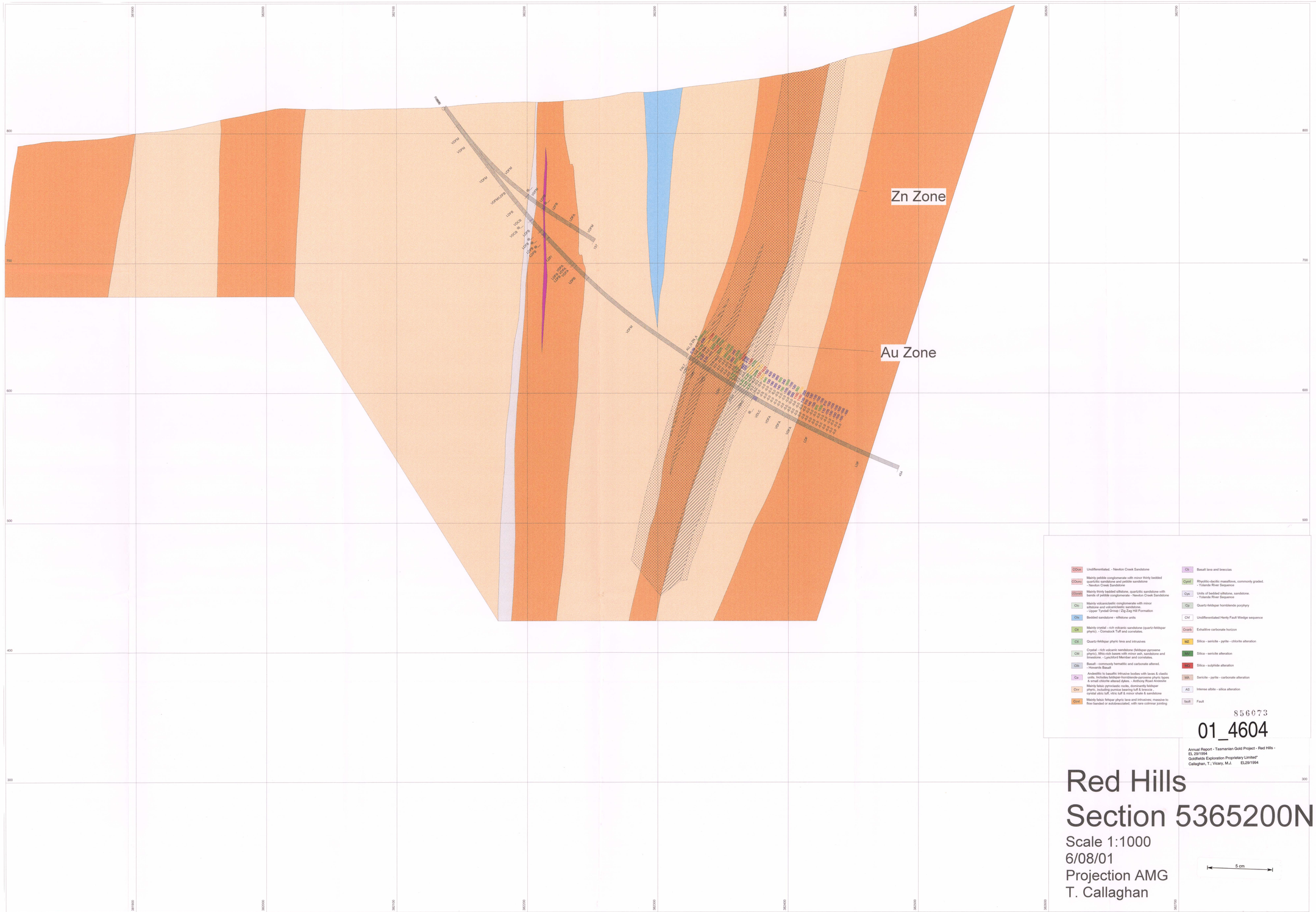
01_4604

Annual Report - Tasmanian Gold Project - Red Hills - EL 29/1994
Goldfields Exploration Proprietary Limited*
Callaghan, T.; Vicary, M.J. EL29/1994

Red Hills 856672
Section 5365100N

Scale 1:1000
6/08/01
Projection AMG
T. Callaghan

5 cm



ODnd Undifferentiated. - Newton Creek Sandstone

ODsnc Mainly pebble conglomerate with minor thinly bedded quartzitic sandstone and pebble sandstone - Newton Creek Sandstone

DSmnc Mainly thinly bedded siltstone, quartzitic sandstone with bands of pebble conglomerate. - Newton Creek Sandstone

Clc Mainly volcaniclastic conglomerate with minor siltstone and volcaniclastic sandstone. - Upper Tyndall Group / Zig Zag Hill Formation

Cbs Bedded sandstone - siltstone units

Cfr Mainly crystal - rich volcanic sandstone (quartz-feldspar phyric). - Comstock Tuff and correlates.

Cfd Quartz-feldspar phyric lava and intrusives

Cfd Crystal - rich volcanic sandstone (feldspar-pyroxene phyric), lithic-rich bases with minor ash, sandstone and limestone. - Lynchford Member and correlates.

Clb Basalt - commonly hematitic and carbonate altered. - Howards Basalt

Ca Andesitic to basaltic intrusive bodies with lavas & clastic rocks. Includes Mt Read Volcanics andesitic porphyritic types & small chlorite altered dykes. - Anthony Road Andesite

Cvv Mainly felsic pyroclastic rocks, dominantly feldspar phyric, including pumice bearing tuff & breccia , crystal vitric tuff, vitric tuff & minor shale & sandstone

Cvvl Mainly felsic feldpar phyric lava and intrusives; massive to flow banded or autobrecciated, with rare colmnar jointing

Cb Basalt lava and breccias

Cyvrd Rhyolitic-dacitic massiflows, commonly graded. - Yolande River Sequence

Cys Units of bedded siltstone, sandstone. - Yolande River Sequence

Cp Quartz-feldspar hornblende porphyry

Clvf Undifferentiated Henty Fault Wedge sequence

Cvarb Exhalitive carbonate horizon

MZ Silica - sericite - pyrite - chlorite alteration

SMV Silica - sericite alteration

MQ Silica - sulphide alteration

MA Sericite - pyrite - carbonate alteration

AS Intense albite - silica alteration

fault Fault

856673

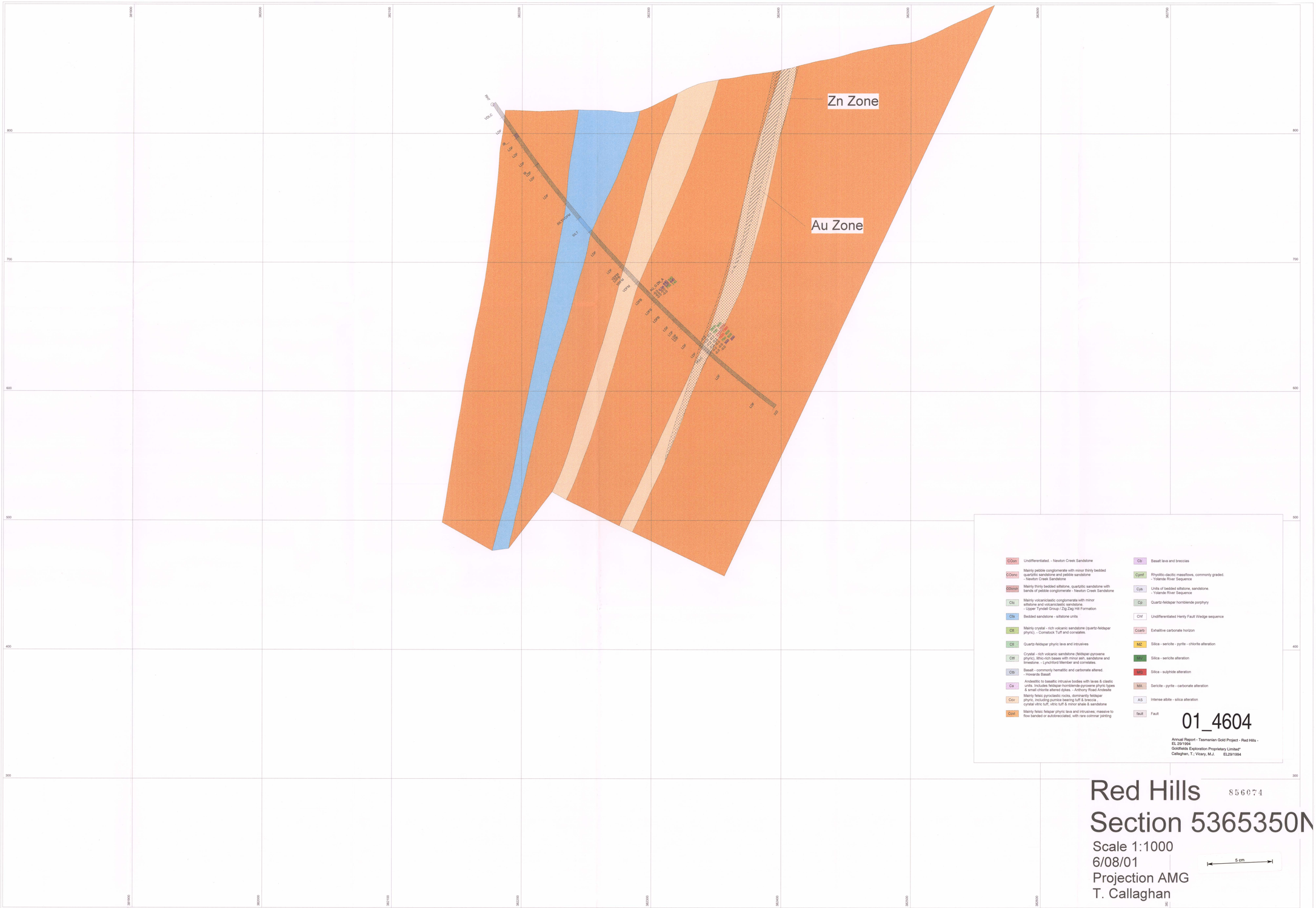
01_4604

Annual Report - Tasmanian Gold Project - Red Hills - EL 29/1994
Goldfields Exploration Proprietary Limited"
Callaghan, T.; Vicary, M.J. EL29/1994

Red Hills
Section 5365200N

Scale 1:1000
6/08/01
Projection AMG
T. Callaghan

5 cm



COun	Undifferentiated. - Newton Creek Sandstone	Cb	Basalt lava and breccias
COsnc	Mainly pebble conglomerate with minor thinly bedded quartzitic sandstone and pebble sandstone - Newton Creek Sandstone	Cyrrf	Rhyolitic-dacitic massflows, commonly graded. - Yolande River Sequence
COsnsh	Mainly thinly bedded siltstone, quartzitic sandstone with bands of pebble conglomerate - Newton Creek Sandstone	Cys	Units of bedded siltstone, sandstone. - Yolande River Sequence
Ctc	Mainly volcaniclastic conglomerate with minor siltstone and volcaniclastic sandstone. - Upper Tyndall Group / Zig Zag Hill Formation	Cp	Quartz-feldspar hornblende porphyry
Cts	Bedded sandstone - siltstone units	Chf	Undifferentiated Henty Fault Wedge sequence
Cfl	Mainly crystal - rich volcanic sandstone (quartz-feldspar phyric). - Comstock Tuff and correlates.	Ccarb	Exhalitive carbonate horizon
Cfl	Quartz-feldspar phyric lava and intrusives	MZ	Silica - sericite - pyrite - chlorite alteration
Cffl	Crystal - rich volcanic sandstone (feldspar-pyroxene phyric), lithic-rich bases with minor ash, sandstone and limestone. - Lynchford Member and correlates.	MSV	Silica - sericite alteration
Clb	Basalt - commonly hematitic and carbonate altered. - Howards Basalt	MSi	Silica - sulphide alteration
Ca	Andesitic to basaltic intrusive bodies with lavas & clastic units. Includes feldspar-hornblende-pyroxene phyric types & small chlorite altered dykes. - Anthony Road Andesite	MA	Sericite - pyrite - carbonate alteration
Ccv	Mainly felsic pyroclastic rocks, dominantly feldspar phyric, including pumice bearing tuff & breccia . cyrstal vitric tuff, vitric tuff & minor shale & sandstone	AS	Intense albite - silica alteration
Cpvf	Mainly felsic felspar phyric lava and intrusives; massive to flow banded or autobrecciated, with rare colmar jointing	fault	Fault

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Annual Report - Tasmanian Gold Project - Red Hills - EL 29/1994
Goldfields Exploration Proprietary Limited*
Callaghan, T.; Vicary, M.J. EL29/1994

Red Hills 856674

Section 5365350N

Scale 1:1000
6/08/01
Projection AMG
T. Callaghan

5 cm

382100 382200 382300 382400 382500 382600

5365400 5365300 5365200 5365100 5365000 5364900 5364800 5364700 5364600 5364500 5364400

Au Zone

Zn zone

RH6R RH11R RH14R RH9 RH10

CCon	Undifferentiated. - Newton Creek Sandstone	Cb	Basalt lava and breccias
CCcnc	Mainly pebble conglomerate with minor thinly bedded quartzitic sandstone and pebble sandstone - Newton Creek Sandstone	Cymf	Rhyolitic-dacitic massflows, commonly graded. - Yolande River Sequence
CCcnsh	Mainly thinly bedded siltstone, quartzitic sandstone with bands of pebble conglomerate - Newton Creek Sandstone	Cys	Units of bedded siltstone, sandstone. - Yolande River Sequence
Ctc	Mainly volcaniclastic conglomerate with minor siltstone and volcaniclastic sandstone. - Upper Tyndall Group / Zig Zag Hill Formation	Cp	Quartz-feldspar hornblende porphyry
Cts	Bedded sandstone - siltstone units	Chf	Undifferentiated Henty Fault Wedge sequence
Ctt	Mainly crystal - rich volcanic sandstone (quartz-feldspar phyric). - Comstock Tuff and correlates.	Ccarb	Exhalitive carbonate horizon
Ctl	Quartz-feldspar phyric lava and intrusives	MZ	Silica - sericite - pyrite - chlorite alteration
Cttl	Crystal - rich volcanic sandstone (feldspar-pyroxene phyric), lithic-rich bases with minor ash, sandstone and limestone. - Lynchford Member and correlates.	MM	Silica - sericite alteration
Ctb	Basalt - commonly hematitic and carbonate altered. - Howards Basalt	MQ	Silica - sulphide alteration
Ca	Andesitic to basaltic intrusive bodies with lavas & clastic units. Includes feldspar-hornblende-pyroxene phyric types & small chlorite altered dykes. - Anthony Road Andesite	MA	Sericite - pyrite - carbonate alteration
Ccv	Mainly felsic pyroclastic rocks, dominantly feldspar phyric, including pumice bearing tuff & breccia , cyrstal vitric tuff, vitric tuff & minor shale & sandstone	AS	Intense albite - silica alteration
Ccvl	Mainly felsic felspar phyric lava and intrusives; massive to flow banded or autobrecciated, with rare colmnar jointing	fault	Fault

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Annual Report - Tasmanian Gold Project - Red Hills - EL 29/1994
Goldfields Exploration Proprietary Limited*
Callaghan, T.; Vicary, M.J. EL29/1994

Red Hills

856075

Plan 500 mRL

Scale 1:1000
6/08/01
T. Callaghan

5 cm

382100 382200 382300 382400 382500 382600

5365400 5365300 5365200 5365100 5365000 5364900 5364800 5364700 5364600 5364500 5364400

Au Zone

Zn Zone

COon	Undifferentiated. - Newton Creek Sandstone	Cb	Basalt lava and breccias
COonc	Mainly pebble conglomerate with minor thinly bedded quartzitic sandstone and pebble sandstone - Newton Creek Sandstone	Cymf	Rhyolitic-dacitic massflows, commonly graded. - Yolande River Sequence
COonss	Mainly thinly bedded siltstone, quartzitic sandstone with bands of pebble conglomerate - Newton Creek Sandstone	Cys	Units of bedded siltstone, sandstone. - Yolande River Sequence
Ctc	Mainly volcaniclastic conglomerate with minor siltstone and volcaniclastic sandstone. - Upper Tyndall Group / Zig Zag Hill Formation	Cp	Quartz-feldspar hornblende porphyry
Cts	Bedded sandstone - siltstone units	Chf	Undifferentiated Henty Fault Wedge sequence
Cft	Mainly crystal - rich volcanic sandstone (quartz-feldspar phyric). - Comstock Tuff and correlates.	Cxarb	Exhalitive carbonate horizon
Ctl	Quartz-feldspar phyric lava and intrusives	MZ	Silica - sericite - pyrite - chlorite alteration
Cttl	Crystal - rich volcanic sandstone (feldspar-pyroxene phyric), lithic-rich bases with minor ash, sandstone and limestone. - Lynchford Member and correlates.	MSr	Silica - sericite alteration
Ctb	Basalt - commonly hematitic and carbonate altered. - Howards Basalt	MQ	Silica - sulphide alteration
Ca	Andesitic to basaltic intrusive bodies with lavas & clastic units. Includes feldspar-hornblende-pyroxene phyric types & small chlorite altered dykes. - Anthony Road Andesite	MA	Sericite - pyrite - carbonate alteration
Ccv	Mainly felsic pyroclastic rocks, dominantly feldspar phyric, including pumice bearing tuff & breccia , cyrstal vitric tuff, vitric tuff & minor shale & sandstone	AS	Intense albite - silica alteration
Ccvl	Mainly felsic felspar phyric lava and intrusives; massive to flow banded or autobrecciated, with rare colmnar jointing	fault	Fault

01_4604

Annual Report - Tasmanian Gold Project - Red Hills - EL 29/1994
Goldfields Exploration Proprietary Limited*
Callaghan, T.; Vicary, M.J. EL29/1994

Red Hills

856076

Plan 600 mRL

Scale 1:1000
6/08/01
T. Callaghan
Projection AMG

5 cm

382100 382200 382300 382400 382500 382600

5365400 5365300 5365200 5365100 5365000 5364900 5364800 5364700 5364600 5364500 5364400

RH7 RH6R RH6 RH5 RH16 RH15 RH14R RH14 RH13 RHP95 RH9 RH10

Au Zone

Zn Zone

COcn	Undifferentiated. - Newton Creek Sandstone
COcnc	Mainly pebble conglomerate with minor thinly bedded quartzitic sandstone and pebble sandstone - Newton Creek Sandstone
COcnsh	Mainly thinly bedded siltstone, quartzitic sandstone with bands of pebble conglomerate - Newton Creek Sandstone
Ctc	Mainly volcaniclastic conglomerate with minor siltstone and volcaniclastic sandstone. - Upper Tyndall Group / Zig Zag Hill Formation
Cts	Bedded sandstone - siltstone units
Ctt	Mainly crystal - rich volcanic sandstone (quartz-feldspar phyric). - Comstock Tuff and correlates.
Ctf	Quartz-feldspar phyric lava and intrusives
Ctfl	Crystal - rich volcanic sandstone (feldspar-pyroxene phyric), lithic-rich bases with minor ash, sandstone and limestone. - Lynchford Member and correlates.
Ctb	Basalt - commonly hematitic and carbonate altered. - Hovards Basalt
Ca	Andesitic to basaltic intrusive bodies with lavas & clastic units. Includes feldspar-hornblende-pyroxene phyric types & small chlorite altered dykes. - Anthony Road Andesite
Cov	Mainly felsic pyroclastic rocks, dominantly feldspar phyric, including pumice bearing tuff & breccia , crystal vitric tuff, vitric tuff & minor shale & sandstone
Covf	Mainly felsic felspar phyric lava and intrusives; massive to flow banded or autobrecciated, with rare colmnar jointing
Cb	Basalt lava and breccias
Cymf	Rhyolitic-dacitic massflows, commonly graded. - Yolande River Sequence
Cys	Units of bedded siltstone, sandstone. - Yolande River Sequence
Cp	Quartz-feldspar hornblende porphyry
Chf	Undifferentiated Henty Fault Wedge sequence
Ccarb	Exhalitive carbonate horizon
MZ	Silica - sericite - pyrite - chlorite alteration
MV	Silica - sericite alteration
MQ	Silica - sulphide alteration
MA	Sericite - pyrite - carbonate alteration
AS	Intense albite - silica alteration
fault	Fault

01_4604

Annual Report - Tasmanian Gold Project - Red Hills - EL 29/1994
Goldfields Exploration Proprietary Limited*
Callaghan, T.; Vicary, M.J. EL29/1994

Red Hills
Plan 700 mRL

856077

Scale 1:1000
6/08/01
Projection AMG
T Callaghan

5 cm