

81-1656.

918001

of M.	A.O.	C.G.	E.O.	D.S.M.E.
Received by Sweroff	14 DEC 1981			R & T
DEPT	51568			
REF. NO.	10.754/81			

EL 42/71

GRAND PRIZE

July - August 81

Contract Geological Mapping for Renison Ltd

By Roger Poltock Geological P/L

ORIGINAL

CONTENTS**INTRODUCTION****STATEGRAPHY** Serpentine Hill / Razorback Ophiolite SuiteDUNDAS GROUP

Red Lead Conglomerate

Hodge Slate

Razorback Conglomerate

Brewery Junction Formation

Fernfields Formation

Comet Formation

Fernflow Formation

STRUCTURAL GEOLOGY**ALTERATION – MINERALIZATION****RECOMMENDATIONS****APPENDICES**

Rock samples – Sheet No. & Stratigraphic Locations

PLANS

- | | | | |
|--------|---------|---|---|
| 1. (a) | VY-0508 | Fact Geology – EL 42 / 71 Grand Prize | Scale 1:2000 |
| | (b) | VY-0912 | Fact Geology – EL 42 / 71 Grand Prize |
| | (c) | VY-1316 | Fact Geology – EL 42 / 71 Grand Prize |
| 2. (a) | VY-0508 | Interpretive Geology – EL 42 / 71 Grand Prize | Scale 1:2000 |
| | (b) | VY-0912 | Interpretive Geology – EL 42 / 71 Grand Prize |
| | (c) | VY-1316 | Interpretive Geology – EL 42 / 71 Grand Prize |

INTRODUCTION

Detailed geological mapping was carried out in the S.W. corner of EL 42/71 in the period July 20 - August 12, a total of 12 field days.

The mapped area of approximately 4km² is located 8km N.E. of Zeehan on the eastern side of the Murchison Highway opposite the Melba siding, and is centred on the Grand Prize fault, extending east to the Kapi fault.

The area is geologically located on the N.W. edge of the Dundas mineral district in a nearly complete sequence of Middle - Upper Cambrian Dundas Group sediments which overly basalts of the Serpentine Hill ophiolite suite. These units are cut by two fault systems, E-W and N.N.W. the latter includes the Grand Prize and Kapi Faults.

Access is via a network of logging, firebreak and drill site roads from the N.E. Dundas Tram and the Melba - Grand Prize - Razorback roads. Most branch roads aren't accessible to vehicles but provide extensive outcrops on the western side of the Grand Prize fault. To the east of the fault exposures are confined to Nevada and Kapi Creeks.

All roads and major streams were mapped, traverses tied to survey stations on the roads, and control in streams by tape and compassing.

Data was plotted on 1:2000 topographic sheets Nos. VI 0508, 0912, and 1316 see Plan 1. Color aerial photographs were used but these flown in 1977 predating most road systems, Run 2 No. 0401-02 covering the area but stereo cover limited to 300m west of Black Hill (0402 eastern end of Run 2).

In the course of mapping 67 rock samples were collected, these of the ultramafic and Dundas Group sediments with several mineralized and gossan samples from the Grand Prize and Kapi areas. All samples labelled:

EL 42/71 G.P.

No.

Date collected

Sample locations are plotted on Plans 1 - 2, locations listed in appendices.

STRATIGRAPHY

All sediments in the mapped area belong to the middle-upper Cambrian Dundas Group, a sequence dominated by argillaceous conglomerates, greywackes and siltstones, siliceous pebble conglomerates and minor carbonate and rhyolite tuff horizons. The Dundas Group disconformably overlies a thick sequence of basalts, the upper part of the Serpentine Hill ophiolite suite Rubenach 1974.

Divisions within the Dundas Group are based on Blissett 1962 1:1 mile Zeehan Sheet and Explanatory Report. These divisions are lithological, supported by fossil evidence but in the present mapping program only the former features used. In greywacke - conglomerate sequences lithological mapping and correlation has problems due to rapid facies changes both laterally and vertically. This highlighted in the Fernfield Formation, particularly the basal sequence on either side of the Grand Prize fault.

In the Dundas District the group has been subdivided in to nine formations, seven of these can with certainty be recognized in the Grand Prize area. The upper two units are missing due to E-W faulting-repetition of the basal formations and emplacement of serpentinite and pyroxenites.

Dundas Group formations overlying basalts in the Melba area bare a marked similarity to the basal Cambrian sequence in SPL 129 between the T.L.E. and Swansea Mines. These sediments and basalts in SPL 129 have been previously considered part of the Crimson Creek Formation, but with some certainty the basalts would be equivalents of the Serpentine Hill ophiolites and the overlying, conglomerates (some carbonate rich), siltstones and siliceous grit-pebble conglomerates would be correlates of the Red Lead Conglomerate - Hodge Slate - Razorback conglomerate.

SERPENTINE HILL/RAZORBACK OPHIOLITE SUITE

For detailed discussion in regards to petrology and structural relationships with enclosing sediments refer to Rubenach 1974.

The basic - ultramafics are stratigraphically located between the Crimson Creek formation and the Dundas Group. The basal part of the ophiolite suite is composed of pyroxenite and associated serpentinites which have been thrust faulted against Crimson Creek sediments immediately N.W. of Serpentine Hill. This contact isn't exposed in the mapped area, but the ultramafics outcrop 400m south of the Grand Prize mine, where they appear to be completely fault emplaced, into upper - lower Dundas Group sediments.

The upper part of the ophiolite suite is composed of a thick pile of basaltic volcanics which outcrop between the Serpentine Hill ultra-mafics and the Dundas Group throughout the Melba area and probably extending to Kapi.

Pyroxenite - Serpentinite these are exposed along the Melba - Razorback road south of the Grand Prize mine, serpentinite predominates with minor coarse pyroxenites with cumulate layering textures outcropping 150 - 200m W.S.W. of location 18 near the fault contact with Brewery Junction siltstone/greywackes.

Basalts, these are exposed along the N.E. Dundas Tram east of the Melba Siding. All outcrops are pink-brown deeply weathered, fine grained (minor pyroxenite lenses), sedimentary features

or interbeds are absent. Fresher exposures displaying basaltic nature occur near contacts with the Dundas Group approximately 1-2km N.E. of Black Hill. (sample locations 42 & 43) Here the basalts are fine grained, dark grey-green, frequently amygdaloidal/vesicular, with some pillow lavas and chert basalt breccia beds.

DUNDAS GROUP

These sediments overly the basalts, fragments of the latter commonly occurring in the basal conglomerates. The contact between the sediments and basalts is frequently obscured by talus shed from siliceous conglomerates, either the Red Lead Conglomerate or the Hodge Slate - overlies the basalts.

RED LEAD CONGLOMERATE

This is the basal formation of the Dundas Group, in the mapped area reaches maximum thickness of 30m. It is frequently absent representing local cut and fill style sedimentation. Best exposures are at locations 40, 50, N.N.E. of Black Hill, here the conglomerate is coarse, poorly sorted, composed of cobbles to 20cm of quartz, chert, quartzite and basalt (dolomitized?) set in a coarse pebbly matrix. Similar conglomerates with dolomitized cobbles have been mapped in the Fernflow Formation location 65.

HODGE SLATE

Black - grey siltstone and sandy siltstones overly the Red Lead Conglomerate or basalts, these are 40 - 100m thick and appear to be continuous throughout the area although outcrops are frequently covered by talus.

The siltstones are massive - laminated, bedding often difficult to recognise due to jointing. In the Kapi area this unit contains conglomerate beds but at the present stage of mapping the extent of these is uncertain.

In the Melba area the slate has a gradational contact with the overlying Razorback Conglomerate, interbeds of sandstone and pebble conglomerate increasing upwards. The upper limit of the silt dominated sequence is marked by a thin rhyolitic tuff bed (3 - 20m thick), which varies from a quartz feldspar crystal tuff No. 63, to a vitric tuff with scattered quartz phenocrysts set in a fine pale yellow groundmass No. 5. The latter type is frequently foliated and sericitized.

RAZORBACK CONGLOMERATE

This formation is approximately 70 - 240m thick, composed of interbedded sandstones and siliceous grit-pebble conglomerate, the latter forms the most prominent outcrops but is subordinate to the sandstones.

Most extensive exposures occur on the flanks of a steep ridge south of Melba Flats. A faulted repetition of this and the overlying formation occurs in the Nevada Creek valley in vicinity of the Melba - Grand Prize road.

- Sandstones, these usually soft, grade from sandy siltstones-grits, frequently micaceous, massive to thickly bedded.
- Conglomerate, these range from grits - cobble conglomerate, (pebble conglomerate 10mm dominant), well sorted composed of subrounded - rounded chert, and quartz fragments. Siltstone and basalt fragments are minor, these are usually coarser and less rounded than the siliceous pebbles. Several conglomerate horizons occur within the sandstones.

BREWERY JUNCTION FORMATION

This unit represents a sharp depositional change in the Dundas Group, it is the most lithologically homogeneous, comprised nearly exclusively of fine greywackes and siltstones. The formation is the most easily defined occurring between two coarser conglomeratic formations the Razorback and Fernfields.

These siltstones and greywackes are exposed in the fire break and drill road system from W - E in vicinity of the contact with the underlying Razorback conglomerate, in Nevada Creek upstream of the Grand Prize fault and a small stream in the S.W. extremity of the licence.

Greywackes and siltstones are well bedded, frequently regular alternating layers a few cm thick, they are usually kahki - pink brown. Minor sedimentary variations occur:

- 1) Argillaceous conglomerate lense in Nevada Creek at location 39.
- 2) Siliceous grits interbedded with fine siltstones - greywacke on hill top 600m N. of Black Hill.
- 3) Possibly hornfelsed greywacke with calcareous cement - matrix sample No. 35.
- 4) Facies changes in Kapi area, the greywackes becoming quartzose tending to sandstones.

FERNFIELDS FORMATION

This overlies the Brewery Junction Formation, contrasting with it in variety of sediments types and associated facies changes. The formation is exposed in drill access roads and a stream west of the Grand Prize fault. On this side of the fault it is 150 - 300m thick, an interbedded sequence of

-conglomerate, these poorly sorted, composed of pebbles - cobbles of siltstone, greywacke and basalt. Quartz and chert fragments are subordinate, usually better rounded, finer, occurring in the matrix.

-Siltstone and greywackes, these coarser grained than the underlying Brewery Junction, pink brown - mauve, frequently pebbly, usually massive to thickly bedded.

This sequence can be subdivided into a conglomerate rich top and base with a dominantly siltstone greywacke centre 60 - 80m thick.

On the eastern side of the Grand Prize fault outcrop is confined to Nevada Creek and a small W. flowing tributary, sediments here differ from those on the opposite side of the fault, particularly the basal section but they occupy the same

stratigraphic position immediately above the Brewery Junction greywackes and siltstones.

-siliceous pebble conglomerate, highly cleaved black siltstone and rhyolitic tuffs. These bare greater lithological similarities to the Hodge Slate and Razorback conglomerate than the Fernfields Formation.

Higher in the formation on the eastern side of the fault siltstone and argillaceous marone - green conglomerates outcrop, these are more typical of the Fernfields Formation.

COMET FORMATION

Outcrop of these sediments occurs in a W.S.W. flowing tributary of Nevada Creek (parallel to strike), on a sharp ridge immediately north of this stream, and fine silt - greywackes on the Grand Prize road (150m East of Nevada Creek crossing) have been included in this formation.

These outcrops are nearly all on the eastern side of the Grand Prize fault, the formation to the west having been displaced by major E.W. faulting.

The Comet Formation is composed of a characteristic sequence of dominantly fine grained sediments, the formation is further substantiated by fossiliferous evidence at two locations 180m S.E. and 400m S. of the Grand Prize mine Blissett 1962.

Sediments include - fine grained, highly cleaved, cream - pink siltstones with interbeds of pink - brown carbonates (max. 0.5m), the latter with a thick crusty brown weathering surface.

250 - 300m further down stream from the carbonate/ siltstones pink - pale green, fine grained, massive to thickly bedded fine sandstones and siltstones outcrop in a series of small waterfalls. The sandstones are frequently banded with pale green - cream slightly calcareous siltstone. Some argillaceous conglomerates outcrop in this area, but seem to be a minor part of the sequence.

FERNFLOW FORMATION

This overlies the Comet Formation and is composed of siltstone and conglomerates similar to those in the Fernfield Formation. These sediments occur in the S.E. part of the licence and have a faulted contact with the ultramafics.

Outcrop is restricted to a broad ridge between the ultramafics and the stream with Comet Formation outcrops. Here coarse poorly sorted conglomerate with carbonate blocks similar to those in the Red Lead Conglomerate at location 40 occur. Elsewhere the formation forms steep slopes covered in siltstone - conglomerate talus.

STRUCTURAL GEOLOGY

Regionally the mapped area forms the N. limb of a broad synclinal structure which has been complicated by faulting

Blissett 1962 1" : 1 mile Zeehan Sheet. Dundas Group sediments strike 10 - 20° north of east and dip. 40 - 60° south throughout the area diverging locally near major faults.

Folding within this regional structure hasn't been recognised with the exception of a small fold core (less than 5m) in Nevada Creek 480m N.W. of Black Hill in Brewery Junction greywackes and siltstones.

Faulting is the most prominent feature and can be broadly subdivided into two main sets.

- a) N.W. this includes the Grand Prize and Kapi faults with several small intervening faults. See Plan 2. These structures are readily detected being at right angles to the strike of bedding. Although these faults are subparallel their sense of movement differs
 - Grand Prize west block north and/or down
 - set of three faults north of and possibly bounding Black Hill west block south and/or up.
 - Kapi fault, no certainty, this feature on the eastern limit of mapping. But from Blissett it has the same sense of movement as the Grand Prize.

- b) E. - W. faulting occurs in a complex structural zone in the southern part of the licence, subparallel to Nevada Creek and the Melba - Razorback road. This structure is a major feature - fault repetition of the lower Dundas Group Razorback Conglomerate and Brewery Junction silts and greywackes. This fault structure is partly lithology correlation dependent but is further substantiated by the occurrence of ultra-mafics further east which appear to be totally fault bounded - probably reintruded in this fault zone.

A minor structural feature in the area is a weak foliation striking N.W., this is particularly prominent as pebble alignment in the siliceous Razorback conglomerate. The foliation parallels axial plan cleavage in the small fold mentioned above.

MINERALIZATION - ALTERATION

Mineralization in the mapped area is confined to the Grand Prize gossan and the Kapi lead zinc carbonate ores, both these are associated with N.W. faulting. Away from these structures no signs of prospecting encountered and mineralization was confined to scattered thin quartz veins which in most cases were barren except for minor chalcopyrite when they occurred in basalts.

An interesting feature is the lack of stream - alluvial tin workings in Nevada Creek downstream of the Grand Prize gossan. Most of Nevada Creek was traversed without any sign of workings, the only possible eluvial - alluvial mining occurs on the northern end of the Grand Prize fault, 140m N.W. of the lowest adit see Plan 1.

The most prominent feature of the area is a possible weak contact hornfelsing of middle Dundas Group sediments

particularly the Brewery Junction, this is associated with the Grand Prize fault and the set of three parallel faults 800 - 1200m further east. Plan 2.

It would be expected that the Grand Prize fault a deeply weathered feature would have a negative outcrop, but it forms a sharp ridge which is independent of any resistant lithology, extending 440m N. of Nevada Creek. This ridge is marked by a 20 - 50m wide zone in which subparallel spines of very hard conglomerate and greywacke/silt occur. On either side of this zone outcrop is poor and weathered as usual.

A similar zone has been interpreted further east, several small faults can be located in the Razorback Conglomerate when these are traced south they bound a broad (300m wide) N. - S. ridge which like the Grand Prize zone is independent of any resistant stratigraphic unit running at right angles to the regional strike. It is proposed that this zone has also been hornfelsed, support for this

- Brewery Junction silts/greywackes are very hard, brittle with conchoidal fracture.
- minor quartz tourmaline vein float occurs further N.E. at location 44. (associated with Devonian Granites)

RECOMMENDATIONS

Within the area several possible host horizons exist for tin - tungsten skarn style mineralization:

- carbonate cobble conglomerates in the Red Lead and Fernflow Formations.
- dolomitic beds in the Comet Formation.
- calcareous greywackes in the Brewery Junction.

These formations are cut by two main sets of faults, at present tin/copper and lead/zinc mineralization is only associated with the Grand Prize and Kapi faults. In addition possible hornfelsing has occurred in association with the Grand Prize and the Black Hill faults indicating that Devonian granites may occur at shallow depths, having intruded these structures.

With these possible host horizons and faults, and the lack of prospects away from the two established mineralized areas it may be advantageous to cover the area regionally with tin - tungsten stream geochemistry. The area is dissected by abundant streams and lacks any transported soil or gravel cover. It is possible that Grand Prize style tin mineralization has previously been undetected by prospectors due to the apparent lack of significant amounts of cassiterite being shed into streams.

REFERENCES

Blissett A.H. 1962

Geological Survey Explanatory
Report ZBEHAN

Rubenach M.J. 1974

The origin and emplacement of the
Serpentine Hill Complex, western
Tasmania Journal of the Geological
Society of Australia Vol. 21, Pt 1,
March 1974.

Appendices Rock Samples - Sheet No. and Stratigraphic locations

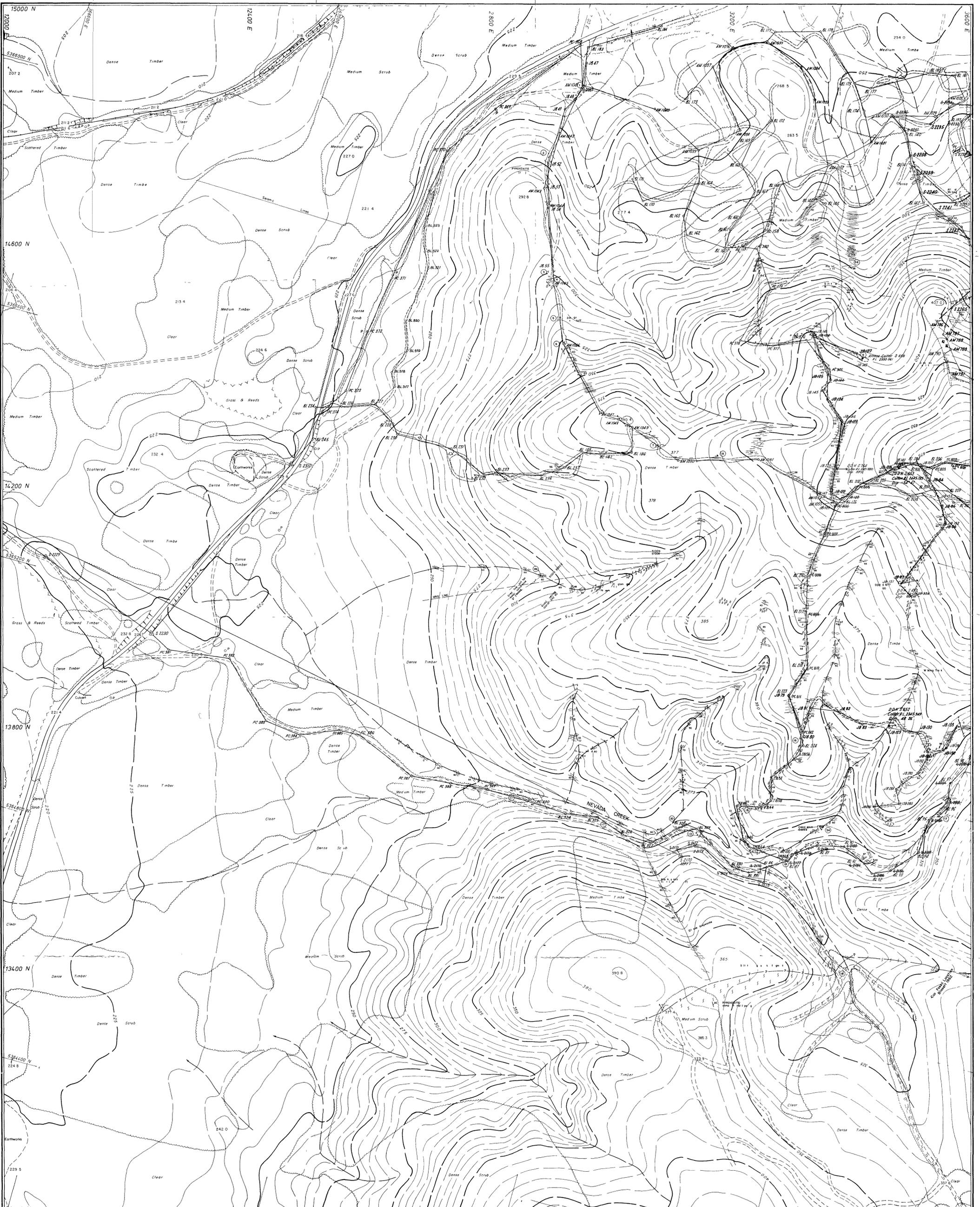
<u>Rock Sample No.</u>	<u>Sheet No.</u>	<u>Stratigraphic Location</u>
1	VY 0508	Basalt
2	"	"
3	"	"
4	"	Red Lead Conglomerate
5	"	Hodge Slate (tuff)
6	"	Razorback Conglomerate (conglomerate)
7	"	Brewery Junction Formation
8	"	" " "
9	"	Razorback Conglomerate (siltstone-sandstone)
10	VY 0912	Grand Prize <small>COSSAN</small>
11	VY 0508	Brewery Junction Formation
12	"	" " "
13	"	Razorback Conglomerate (conglomerate)
14	"	Razorback Conglomerate (conglomerate-sandstone)
15	"	Fernfield Formation
16	"	" "
17	"	" "
18	"	Serpentinite
19	VY 0912	Hodge Slate
20	VY 0508	Razorback Conglomerate (conglomerate)
21	VY 0912	Fernfield Formation
22	"	" "
23	"	" "
24	"	" "
25	"	" "
26	"	" "
27	"	" "
28	VY 0912	Comet Formation

Appendices Rock Samples - Sheet No. and Stratigraphic locations

<u>Rock Sample No.</u>	<u>Sheet No.</u>	<u>Stratigraphic Location</u>
29	VY 0912	Comet formation
30	"	" "
31	"	" "
32	"	" "
33	"	Grand Prize gossan
34	VY 0508	Fernfield Formation
35	VY 0912	Brewery Junction Formation
36	"	" " "
37	"	Basalt
38	VY 0508	Hodge Slate (tuff)
39	VY 0912	Brewery Junction Formation
40	"	Red Lead Conglomerate
41	"	Hodge Slate (tuff)
42	"	Basalt chert breccia
43	VY 1316	" " "
44	"	Basalt dolomitized
45	VY 0912	Fernfield Formation (tuff?)
46	"	Fernfield Formation (tuff and siltstone)
47	"	Basalt chert breccia
48	"	Basalt
49	VY 0508	Brewery Junction Formation
50	VY 0912	Red Lead Conglomerate
51	"	Brewery Junction Formation
52	"	" " "
53	VY 1316	" " "
54	"	Hodge Slate
55	"	Razorback Conglomerate

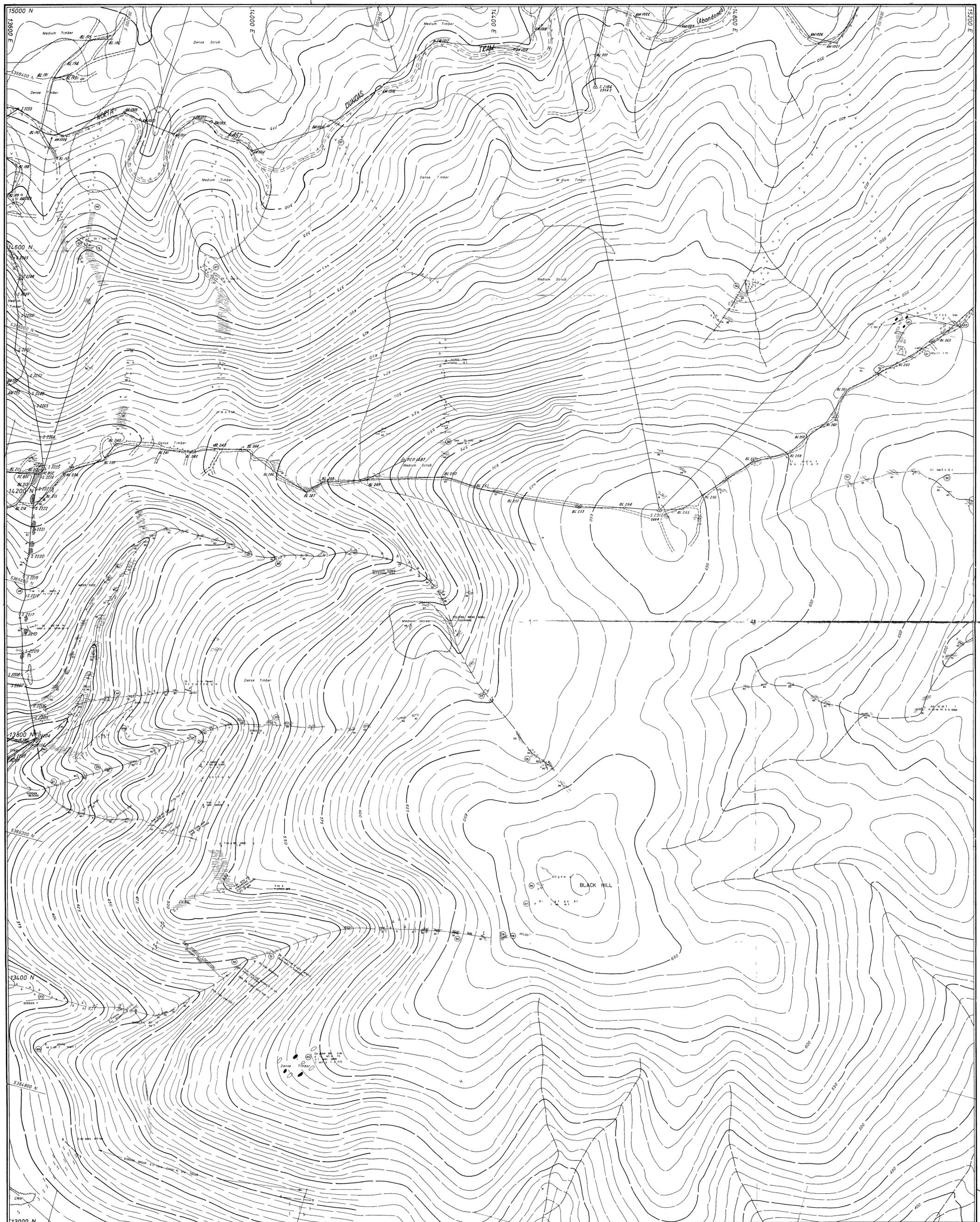
Appendices Rock Samples - Sheet No. and Stratigraphic locations

<u>Rock Sample No.</u>	<u>Sheet No.</u>	<u>Stratigraphic Location</u>
56	VY 1316	Kapi carbonate Pb. Zn. mineralization
57	"	Hodge Slate - Razorback Conglomerate
58	"	" " " "
59	"	" " " "
60	"	Hodge Slate
61	"	" "
62	"	Hodge Slate dolomitized - sideritic
63	"	Hodge Slate - Razorback Conglomerate
64	VY 0912	Fernfield Formation
65	"	Fernflow Formation
66	"	Grand Prize Gossan
67	"	Basalt Chert breccia

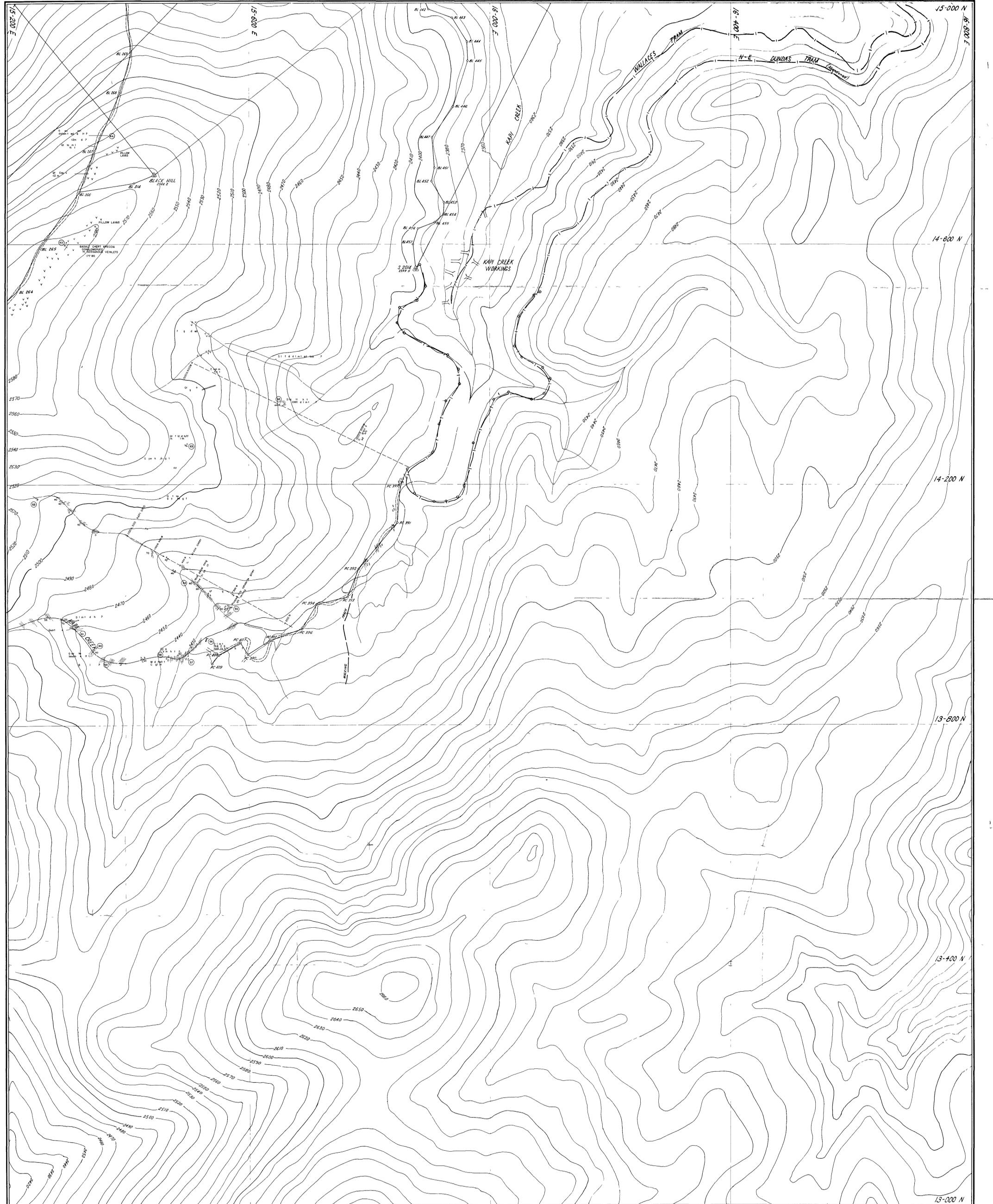


81-1656

DATE SVY AMENDMENT 18 REF	Compiled by ASSOCIATED AERIAL SURVEYS PTY LTD MELBOURNE DATE OF PHOTOGRAPHY 8.2.79	GEOLOGY Siliceous Conglomerate Argillaceous Conglomerate Conglomerate with Carbonate Cobbles Siltstone Sandstone fine grit Siltstone Graywacke interbedded laminated Graywacke fine grits Calcareous horizons Rhyolitic tuff Basalt Serpentine Gossan	REFERENCE 100m 200m 300m 400m 500m 600m 700m 800m 900m 1000m	SYMBOLS 100m 200m 300m 400m 500m 600m 700m 800m 900m 1000m	5cm 10cm 20cm 30cm 40cm 50cm 60cm 70cm 80cm 90cm 100cm	REVISION LIMITED GRAND PRIZE AREA FACT GEOLOGY SCALE 1:2000 METRES DRAWN R Pollock TRACED T Dods DATE October 1981 SCALE 1:2000 DRAWING No VY-0508
---------------------------------	--	--	---	---	--	--

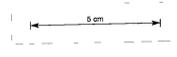


15000 N 14600 N 14200 N 13800 N 13400 N 13000 N		53600 E 53640 E 53680 E 53720 E 53760 E 53800 E	
DATE	SVY	AMENDMENT	FB REF
Compiled by ASSOCIATED AERIAL SURVEYS PTY LTD MELBOURNE DATE OF PHOTOGRAPHY 8.2.79			
GEOLOGY Siliceous Conglomerate Argillaceous Conglomerates Conglomerate with Carbonate Cobbles		REFERENCE Siltstone Sandstone fine grit Siltstone Greywacke interbedded Greywackes fine grits Calcareous horizons Rhyolitic tuff Basalts Serpentinites Gossan	
SYMBOLS (various symbols for roads, boundaries, etc.)		5cm scale bar NORTH arrow	
RENISON LIMITED 918015 GRAND PRIZE AREA FACT GEOLOGY SCALE 1:2000 METRES			DRAWN in Pollock TRACED T.O.S. DATE October 1981 SCALE 1:2000 DRAWING No VY-0912



REFERENCE

GEOLOGY		SYMBOLS	
	Siliceous Conglomerate		Bedding strike and dip
	Argillaceous Conglomerate		Strike and dip of quartz vein
	Conglomerate with Carbonate Cobbles		Fault approximate position
	Siltstone		Fault interpreted
	Sandstone fine grit		Geolog cal boundary accurate
	Calcareous horizons		Geolog al boundary interpreted approx
	Siltstone Graywacke unbedded laminated		Fossiliferous pebble alignment
	Rhyolitic tuff		Hornfelsing approximate limit
	Basalts		Rock Sample Location
	Serpentinities		
	Gneiss		

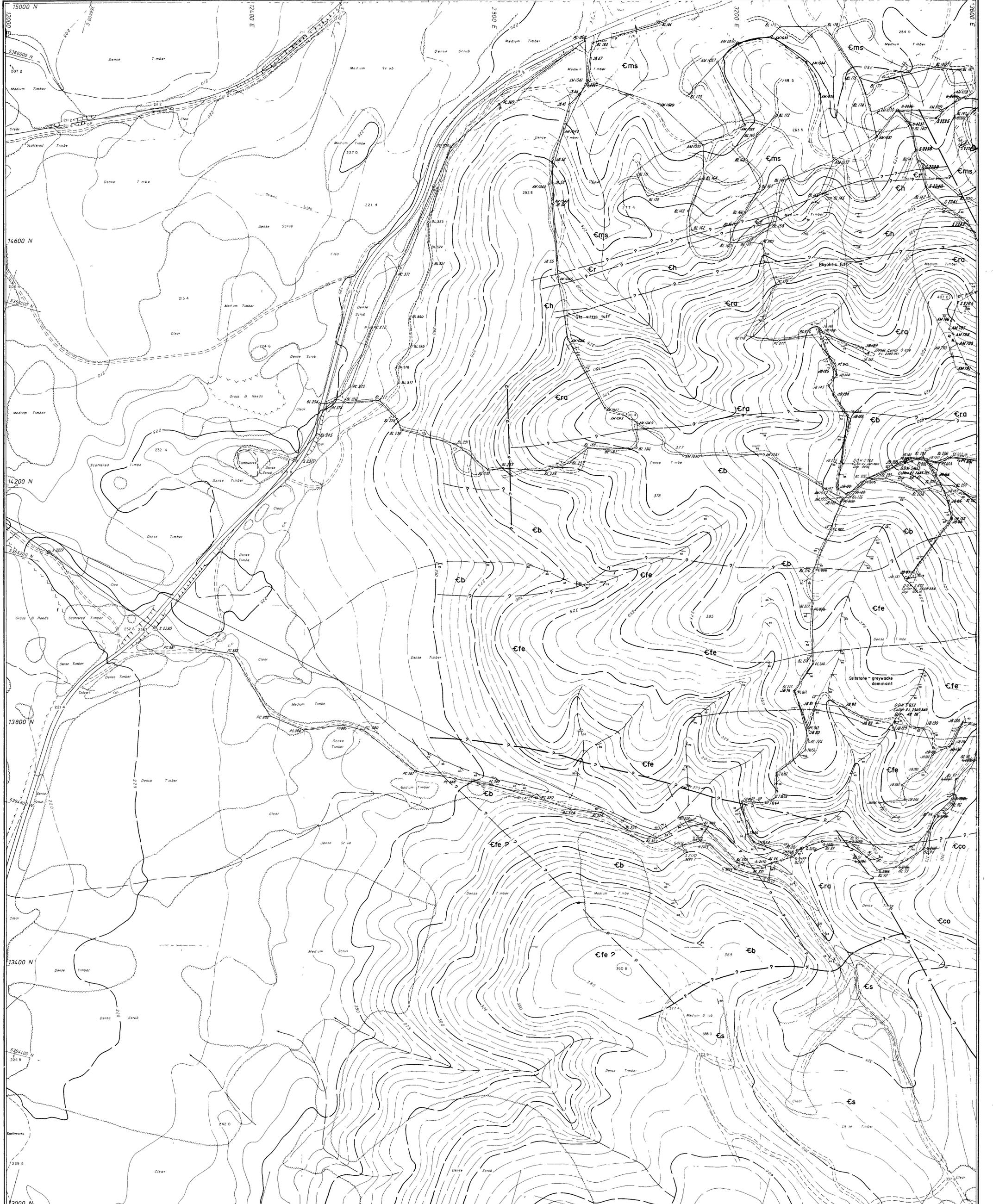


RENISON LIMITED 918016

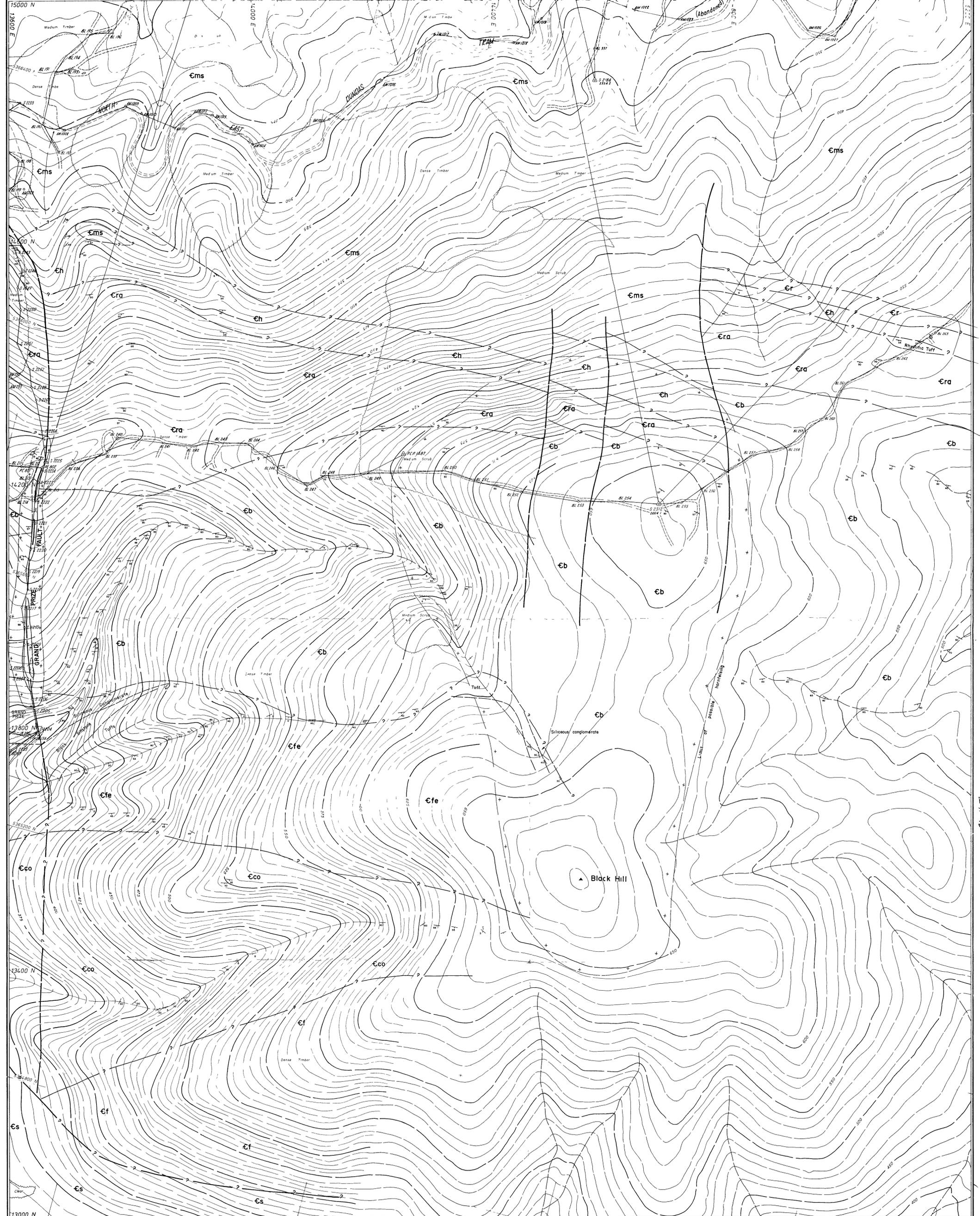
KAPI CREEK AREA
FACT GEOLOGY

SCALE 1:2000 METRES

DRAWN	R. Pollock
TRACED	T.G.D.S.
DATE	October 1981
SCALE	1:2000
DRAWING No.	VY1316



DATE	SVY	AMENDMENT	1 B 181	GEOLOGY		REFERENCE	SYMBOLS		RENISON LIMITED 918017	DRAWN R Pollock	
Compiled by ASSOCIATED AERIAL SURVEYS PTY LTD MELBOURNE				Cf	Ferriflow Formation	Cb	Brewery Junction Formation	Cr	Red Lead Conglomerate	Traced	T O D S
DATE OF PHOTOGRAPHY 8 2 79				Cco	Comet Formation	Cra	Razorback Conglomerate	Cms	Melbo Spillites	DATE	Oct 1981
				Cfa	Ferrifields Formation	Ch	Hodge Slate	—	Geological boundary accurate	SCALE	1:2000
								—	Geological boundary interpreted approx	DRAWING No	VY-0508
								—	Foliation pebble alignment	SCALE 1:2000 METRES	
								—	Fault approximate position	SCALE 1:2000 METRES	
								—	Fault interpreted	SCALE 1:2000 METRES	
								—	Horsting approximate limit	SCALE 1:2000 METRES	



DATE SVY AMENDMENT FB REF Complied by ASSOCIATED AERIAL SURVEYS PTY LTD MELBOURNE DATE OF PHOTOGRAPHY 8279		GEOLOGY CAMBRIAN DUNDAS GROUP Cf Fernflow Formation Cco Comet Formation Cfe Fernfields Formation Cb Brewery Junction Formation Cra Razorback Conglomerate Ch Hodge Slate		REFERENCE Cr Red Lead Conglomerate Cms Melba Spillites CAMBRIAN INTRUSIVES Cs Serpentine pyroxenite etc		SYMBOLS Bedding strike and dip Strike and dip of quartz vein Fault approximate position Fault interpreted Geological boundary accurate Geological boundary interpreted approx Foliation pebble alignment Hornfelling approximate limit		RENISON LIMITED 915015 GRAND PRIZE AREA INTERPRETIVE GEOLOGY SCALE 1:2000 METRES DRAWN R Pollock TRACED T GOS DATE Oct 1981 SCALE 1:2000 DRAWING No VY-0912	
---	--	---	--	--	--	---	--	---	--

81-1654

