

MINERAL DEPOSIT RESEARCH UNIT

"METALLOGENESIS OF THE ISKUT RIVER AREA, NORTHWESTERN B.C."

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SIB Property  
104B/9

**To:** Iskut River Project Technical Committee

**From:** R. D. Bartsch.

**Date:** July 2, 1992.

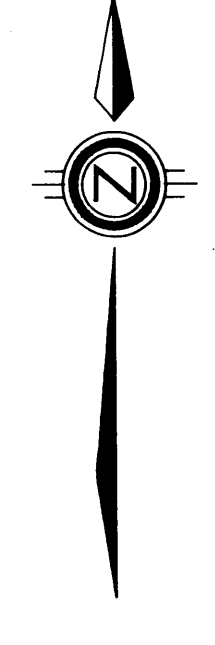
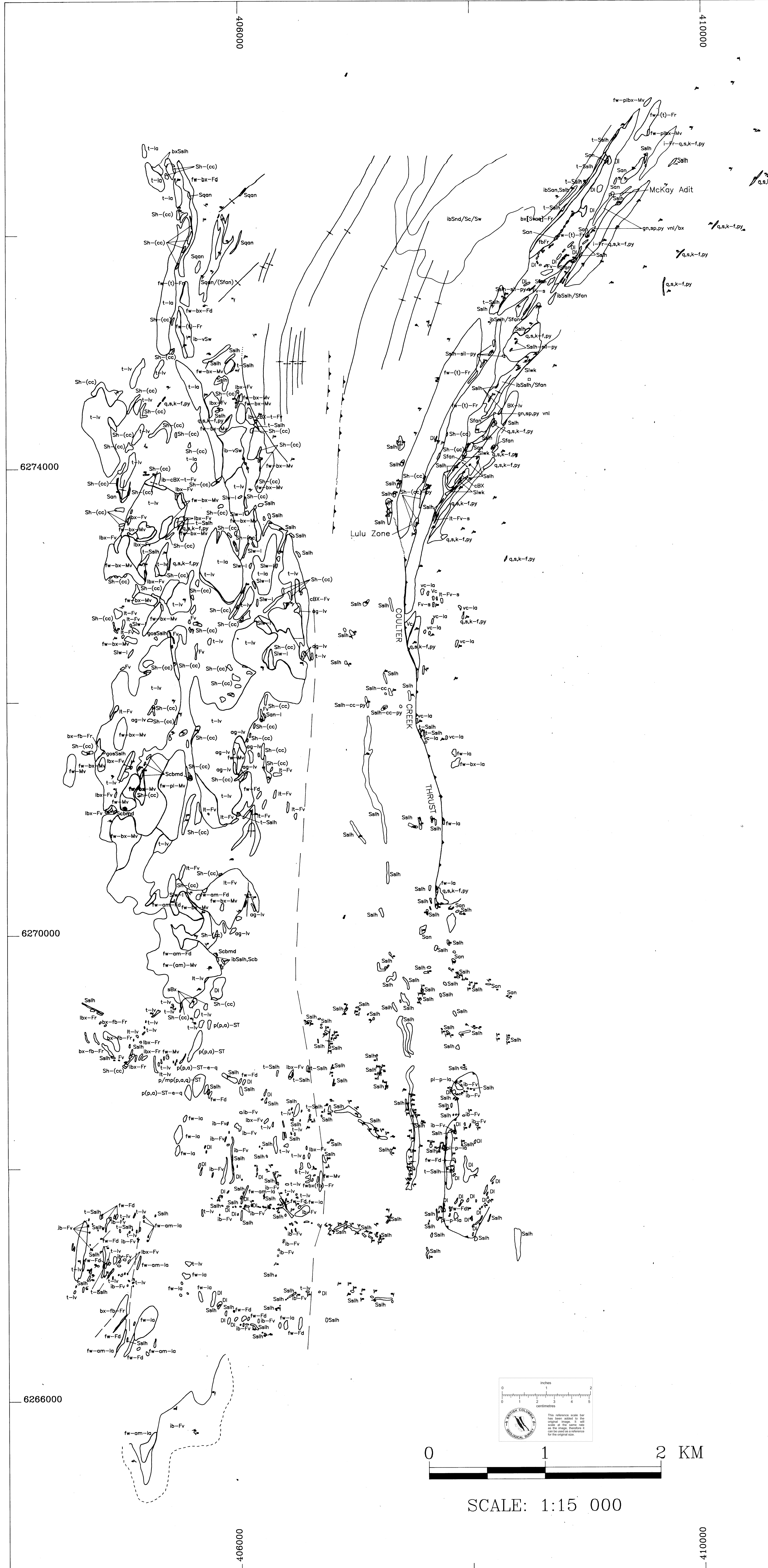
**Subject:** First draft of outcrop geology map, Prout Plateau area.

Please find enclosed a copy of my outcrop geology map compiled from initial mapping undertaken in 1991. The map is to be appended to the M.D.R.U., Iskut River Project, 1992 annual report, section 3.1.

The map is an initial draft only and will be subject to changes following mapping and field checking in 1992. Structural and stratigraphic interpretations, apart from major features required to understand the regional distributions of the lithologies, are not displayed. On completion of mapping in 1992, two map sheets, at 1:10000, of outcrop geology and interpretation geology will be produced.



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### LEGEND

#### ROCK CODES

<b>VOLCANIC ROCKS</b>	<b>PREFIX</b>	<b>Igneous</b>
<b>Fv</b> Undifferentiated felsic		am Amygdaloidal
<b>Fd</b> Dacite		fb Flow banding
<b>Fr</b> Rhyolite		pl Pillow structures
<b>Iv</b> Undifferentiated intermediate		sl Spherulites
<b>Ia</b> Andesite		t Tuff
<b>M</b> Undifferentiated mafic		ti Lapilli tuff
<b>Mv</b> Subalkaline basalt		ag Agglomerate
<b>INTRUSIVE ROCKS</b>		lxb Lapilli breccia
<b>SY</b> Syenitoids		bx Breccia (monomict)
<b>Dt</b> Dioritoids		EX Breccia (polymict)
<b>GB</b> Gabbroids		fw Flow rocks
<b>SEDIMENTARY ROCKS</b>		fbw Flow breccia
<b>Sag</b> Undifferentiated argillites		i Intrusive
<b>Sh</b> Shale		p(.) Porphyritic (phenocrysts specified)
<b>Ssh</b> Silt-shale		mp(.) Mega-porphyritic (phenocrysts specified)
<b>Svq</b> Cherty siltstone (volcanogenic)		<b>Sedimentary</b>
<b>Ssd</b> Undifferentiated sandstones		ib Interbedded
<b>San</b> Arenites		zb Cross-bedded
<b>Sqn</b> Quartzarenite		<b>SUFFIX</b>
<b>Sln</b> Litharenite		<b>Minerals</b>
<b>Sfn</b> Feldspathic arenite		<b>SILICATES</b>
<b>Sw</b> Undifferentiated wackes		am Amphiboles
<b>Stw</b> Lithic wacke		c Chlorite
<b>Sfw</b> Feldspathic wacke		p Plagioclase
<b>Vc</b> Volcaniclastics		kt K-feldspars
<b>Srd</b> Rudites		px Pyroxene
<b>aBX</b> Breccia (polymict)		q Quartz
<b>bxS</b> Breccia (monomict)		s Sericite
<b>Sc</b> Conglomerate		sil Silicified
<b>Sob</b> Undifferentiated carbonates		<b>CARBONATES</b>
<b>Sl</b> Limestone		ank Ankerite
<b>Smd</b> Limestone (mudstone)		az Azurite
<b>Slwk</b> Limestone (wackestone)		cal Calcite
		cb Carbonate (unspecified)
		<b>SULPHIDES</b>
		as Arsenopyrite
		cp Chalcopyrite
		gn Galena
		py Pyrite
		sp Sphalerite
		<b>OTHER</b>
		cc Carbonaceous

#### INTERPRETED STRATIGRAPHIC POSITION

The volcanic stratigraphy belongs to the Jurassic Hazelton Group, the overlying sediment dominated sequence belongs to the Lower Lake Group. Present stratigraphic nomenclature subdivides the Hazelton Group into:

Upper Hazelton Group - Salmon River formation (andesite, basalt & interbedded sediments)  
 - Mount Diworth formation (rhyolite & dacite tuffs, flows, etc)  
 - Betty Creek formation - andesite, basalt, volcaniclastic and minor fine sedimentary rocks; the formations can not be differentiated in the map area.

Lower Hazelton Group - Unak River formation

The interpreted stratigraphic position of the mapped outcrops and different lithologies are allocated different layers in the AutoCAD drawing file. Lithologies or formations can be assigned different pen colours for plotting. The map will be available in digital format when mapping is complete. This is a first draft and will be subject to changes following mapping in 1992.

#### GEOLOGICAL BOUNDARIES & SYMBOLS

—	Outcrop boundary	+++	Bedding (inclined, vertical, facing, overturned)
----	Extent of outcrop traversed		Cleavage or foliation (inclined, vertical)
— —	Major stratigraphic boundary		Flow banding (inclined, vertical) plane indicated
—▲—▲—▲—	Major/minor thrust fault	∠∠	Flow bend fold (attitude of 'axial' plane)
—▲—▲—▲—	Major/minor fault	∠∠	Pillow flow lobe (facing indicated, flow direction indicated)
—▲—▲—▲—	Major/minor fold axes (anticline/syncline)	□	Adit
—●—●—●—	Minor felsic dike		
—●—●—●—	Minor mafic dike		

## PROUT PLATEAU OUTCROP GEOLOGY

GEOLOGY  
 COMPILED BY: R. D. Bartsch  
 MAPPING BY: R. D. Bartsch  
 P. D. Lewis (Bowser sediments, north of 6273300N)  
 Granges Pty. Ltd. Geologists (south of 6269000N)

M.D.R.U., ISKUT RIVER PROJECT