URBD 40220 GEOLOGY
DIRT BIKERS GUIDE TO ROSEBUD
STRATIGRAPHY, BENNETT, 8/21/92

The Dirt Biker's Guide to ROSEBUD STRATIGRAPHY

(yet another prototype)

QUATERNARY (0-6 ma. ?)	Qal Qlb Qlb Qpg Qpg	alluvial deposits colluvial deposits lake bed deposits land side deposits pediment gravel deposits older gravel deposits
BLACK ROCK STRUC	TURAL BASIN IN-FILL OF EBUD, OSCAR,	GIONAL TILTING, DEVELOPMENT OF THE CONTINUED EROSION OF THE ANTELOPE AND THE BLACK ROCK BASIN, AND LIKELY PERIOD (SULPHUR?), SAWTOOTH KNOB, AND LANTERN D.
	Trd	Rhyolite dikes which cut Camel conglomerate at Sulphur (Wallace = Thd).
LATE TERTIARY (6-12 ma ?)	Ths	Hot springs sinter deposits
	Teb	Eruptive breccia sequence at Oscar = Twb white breccia unit of Wallace.
	Tec	camel conglomerate = tilted, pebble conglomerates composed of well rounded clasts of Jurassic-Triassic and Cretaceous rocks including
		phyllite, slate, quartzite, granitic to mafic intrusive rocks, and bull quartz.
TERTIARY (12-15 ma ?)	TID	fissure basalt flows, thin basalt flows found at the northeast end of the Kamma Mountains.

Tts

Tuffaceous sediments, clay rich, mainly siltstones and mudstones (probably lake bed sediments) as found at "Wiggle" survey control point (NE of Gator) and the small patch found southeast of KM-7. The Badger Formation which consists of a thick pile of volcaniclastic sediments including debris flows, laharic breccias, and epiclastic sediments.

rli Latite dikes and plugs

Chocolate volcanics which generally consists of a thick pile of porphyritic quartz-latite to alkali rhyolite flows and pyroclastic breccia units which locally can be divided into three members:

Tou Upper Chocolate flow and pyroclastic breccia member.

Tom Middle Chocolate green pyroclastic breccia member.

Tcl Lower Chocolate flow and pyroclastic breccia member.

Thy Genuine Bud volcanics is composed of up to 5 (or perhaps more?) members which commonly include three green pyroclastic breccia members separated by two fine-grained rhyolite flow members:

TERTIARY (12-15 ma?)

Thup Upper Genuine Bud a generally thin bedded, green pyroclastic breccia member.

Thuf Upper marker flow member

Thmp Middle green pyroclastic breccia member

Tblf Lower marker flow member

Thip Lower green pyroclastic breccia member

TWIV

wild Rose volcanics consist of at least three members including the upper and lower, flow and pyroclastic breccia members, and two discontinuous, thin bedded, green predominantly pyroclastic breccia members:

PRE-TERTIARY

REB

8/21/92

.

TWILL

pyroclastic

flow and

Upper

breccia member pyroclastic green Middle TWIMP breccia member pyroclastic flow and Lower Twrlf breccia member bedded thin green, Lower Twrlp pyroclastic breccia member pozer volcanics probably represent Tdv an early rhyolitic flow dome complex. It appears that a considerable topographic relief was developed on top of the Dozer before the Wild Rose and later volcanic units were deposited. Flow dome breccia similar in nature Tfdb to the Dozer flow dome sequence; however, are composed dominantly of monolithic dome-related breccia bodies and some related near vent flows and flow breccias. The best exposures of these rocks occur at the east end of Rosebud Canyon-TERTIARY Oscar Formation consists of a series Tof (12-15 ma?)of intermediate to mafic but predominantly andesitic volcanic flows and subordinate interbedded conglomerate (Jurassic-Triassic-Cretaceous clasts) and tufaceous sediment interbeds. sedimentary rocks generally TS consisting of sands, silts, grits and conglomerates which at Dozer Hill directly overlie the JTRa basement rocks and are presumed to be equivalent to the sedimentary portions of the Oscar Formation (Tof). Auld Lang Syne Group JTRa