DISTRICT	Rosehud
DIST_NO	4610
COUNTY  If different from written on document	Pershing
TITLE If not obvious	Stratigraphy of the Rose bud Mine aree
AUTHOR	
DATE OF DOC(S)	1997
MULTI_DIST Y / N?	
Additional Dist_Nos:  QUAD_NAME	Sulphur 72
P_M_C_NAME (mine, claim & company names)	Roschad Mine; South Ridge: Dozer Hill Roschad Canyon; South Zone; North Zone; East Zone; Black Knob
COMMODITY  If not obvious	gold, silver
NOTES	Stratigraphie chart; geology
	Imag Box 60
Keep docs at about 250 pages if (for every 1 oversized page (>11: the amount of pages by ~25)	

	y lines represent unconformities South Ridge	Dozer Hill Area			South Ridge	S. Ridge, Dozer, N of RShear, Black Knob	Rosebud Canyon		South & North Zones	East Zone
Massingill (1988)	9	LAC (1991)	Mueller (1991)	Brady (1995)	SFPG (1996)	CPK/HSM (1997)	Turner (1997)	Dirt Biker (1993)	Muerhoff & Holmes (1995)	Allen (1997)
			4			8		Ths hot springs sinter deposits  Teb eruptive breccia sequence at Oscar (=Twb-white		
								Teb leruptive breccia sequence at Oscar (= I wb-wnite breccia unit of Wallace		
				Tf Tertiary fanglomerate-angular to subrounded frags of volcanic and pre-T			Tsc Camel Comglomerate-conglomerate and	Tcc Camel Cgl-tilted, pebble conglomerate composed of well		
				<60' basement; thickens to E in SW area; flooded with opaline cement that			scree breccia	rounded clasts of Jurassic-Triassic and Cret. rocks		
basalt			19	intensifies along range-bounding fault in east; probably correlative with lower Camel Conglomerate				Tfb fissure basalt flows-thin basalt flows found in NE Kamma Mt	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Barrel Springs-volcaniclastic conglomerate, sand, siltstone and mudstone, sparse Mz clasts,				Ts Lake sediments-volcanic ash deposited in local lakes along margins of			Ts Lake Sediments-volcanic ash and	Tts tuffaceous sediments-clay-rich, mainly siltstones &		
abundant volcanic clasts; interbedded unwelded pyroclastic/airfall tuffs  Pansy Lee-conglomerate, sand, sltst & mdst, abundant Mz clasts (no volcanic clasts); clast size,				Kamma Mtns; incompletely lithified air tuff and fine volcanic ash debris			lacustrine sediments	mudstones (probably lake bed sediments) as found at  "Wiggle" survey control point and the small patch found		
Pansy Lee-conglomerate, sand, sitst & mdst, abundant Mz clasts (no volcanic clasts); clast size, abundance and rounding decreases upward through unit			14	deposited in thin horizontal layers				southeast of KM-7		
Badger-conglomerate, clay, silt, sand, airfall tuffs, bedded clay-matrix conglomerate interbedded. To	Badger	TE	Badger-epiclastic breccia & fanglomerate	Tb Badger-angular to semirounded volcanic frags 3-5" diameter derived mainly from			Tb Badger (& Gator) Formation-hematilic,	Tor Badger Fm-thick pile of volcaniclastic sediments		
with lacustrine/floodplain finer grained beds; laharic in part  Gator Breccia-pyroclastic breccia; matrix of welded, flow-banded, crystal- and lithic-rich rhyolitic  Tcg	-200'		The shares of the same	<1000' Choc Tuff; red silt matrix locally cements frags; locally interbedded tuffaceous		To all Other For house and a Control of the Control	volcaniclastic and conglomeratic breccias-	including debris flows, laharic breccias, and epiclastic sediments		
Gator Breccia-pyroclastic breccia; matrix of welded, flow-banded, crystal- and lithic-rich rhyolitic   Tcg tuff; clasts up to bomb size of mostly fl-bnd tuff; possibly intrusive vent facies in places; massive   200			Tbr rhyolite flows	lake sediments; thin rhyolite flow breccia near top; probably alluvial fan along central and eastern Kamma Mtns prior to basin-range faulting		Tg Gator Fm-breccia member(?); imbricated, locally well rounded >100' conglomerate with volcanic clasts and silty matrix	red silty matrix	epiciastic sediments		
Chocolate-pyroglastic crystal-rich (sanidine and biotite) welded, rhyolitic-quartz latitic.	Chocolate Formation CT	Chocolate Tuff-margon and grey moderately	Choociate volcanics-rhyolite flows & pyroclastics	To Chocolate Tuff -	To Chocolate	To Chocolate	To Choodate Formation	Toy Choociate volcanios-generally consists of a thick pile of	Tot Chocolate Tuff-series of interbedded. Tine-grain ash flow tuff and coarse	To Chocolate Pre-effusive & intrusive volcanics ranging from lattic to andesitic in composition Tofg undifferentiated Tofg-dominantly fine-grained, porphyritic, latitic to andesitic, volc flows with
flow-banded tuff; lithic rich in places; multiple cooling units		welded, fine-grained sanidine-bearing tuff, lithic tuff and volcanic breccia (CIC, TCP); locally	Tot fg rhyolite flows, 2-5% plag phenos+-bi; purple-brown	>1500' consists of volcanic lahars (Tcbx), welded and flow banded ash	Tcpl porphyritic lava-med gray, dense, flow-banded, sparsely	Tcbk Black Knob member-blk to gray, dense, flow-banded, andesitic;	Chocolate Flow-flow-banded, sparsely porphyritic, latitic flow - local eruptive	porphyritic, quartz latite to alkali rhyolite flows and	0-600' grain, poorly sorted, matrix- to clast-sup, heterolithic volcanic breccia	>800' interbedded autobreccias; glassy to sugary textured gmass with 10-15% 1-8 mm,
>40	chocolate brown; resistant; maroon lithics -	includes green, glauconite-rich, lithic lapilli	Tcx fg rhyolite flows, 5-15% plag phenos	flows (Tw), vapor-phase altered flows (Tcv), vitrophyres as well as extensive areas of non-welded ash flow tuffs (Tc) all of probable	>300' porphyritic andesite; flow foliation discordant with bedding	100' stubby, locally glomrpor plag; may be correlative with Big Choc flow Tcaaa AAA member-dusky purple, amph-phyric, aphanitic andesite; amph		Tcu Upper Choc flow and pyroclastic breccia member		subhedral-euhedral plag phenos replaced by varying amounts of clay, hematite, pyrite, & calcite, and 5% .5-3 mm, subhedral-euhedral hbl and bi phenos replaced by hematite
	lapilli size	tuff horizons especially near its base (C2C);		quartz latite comp; 4-10% .1-3.5 mm plag, 1-3% .2-1 mm bi,		400' to 3 mm >> stubby plag phenos; locally resembles Brady Andesite				& calcite, and 5% .5-3 mm, subnedral-eurleural ribi and bi prierios replaced by members
	To a management of the state of	alteration typically consists of bleaching and	14	gmass composed of feldspar, clay, quartz and hematite		though more porphyritic and less flow banded	Changete Tuff non wolded lithin tuffo	Tcm Middle Choc green pyroclastic breccia member		Tcllt monolithic, lithic lapilli tuff breccia or autobreccia with minor, block sized clasts;
	Tcp pyroclastics-coarse, unbedded pyroclastics; -800' tuffaceous matrix; block-sized lithics near	moderate to strong argillization	Tcp pyroclastic and debris flow breccias		Tct tuffs-nonwelded lithic tuffs w/Choc frags	Tcsu surge tuffs-well bedded, non-welded lithic tuffs w/Choc frags; >50' Tcl lithic breccia-massively bedded, non-welded lithic bx, lahars(?), etc.	Chocolate Tuff-non-welded lithic tuffs	Terri Mildule Crioc green pyrociastic brecola member		compositionally, the sub-unit is latitic to andesitic with the same phenocryst content
	base; gray to red		77			>200'				as undifferentiated Tcfg
			Tcxp pyroclastics, 5-15% plag phenos Tci intermediate flows (andesite, dacite)		Tcmp Marker Porphyries-glomeroporphyritic lava flows	Tcmp Marker Porphyries-5-30 ft thick glomeroporphyritic lava flows; at least 3 in bottom 150 ft of Chocolate [shown	Marker Porphyries-glomeroporphyritic flows or sills			Tofg fine-grained, porphyritic, latitic to andesitic, volcanic flow containing up to 5% fine-grained,
			(andesite, dacite)		2120	at least 3 in bottom 150 ft of Chocolate [shown interbedded with lithic? tuff]	THE U SHA			dissem, specular(?) hematite, some of which have replaced hbl(?); phenos rarely achieve lengths of .6 mm; contains rare clay-altered, probable augite phenos up
										to 6 mm and minor clay-altered plag phenos; reddish brown in color
									73	Tompo fine-grained massive, light pink to tan, slightly porphyritic andesitic intrusive; .5-1% phenos
			Tcl rhyolite with dark lithics, locally possible ash flow tuff					Tcl Lower Choc flow and pyroclastic breccia member	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	170' .6 mm laths of clay-altered plag phenos in an aphanitic gmass; contains up to 2% of .12 n dissem py cubes; white to light green vitrophyre (Tcvit) surrounds the margins of this intrus
			Tce epiclastic breccia or sediment, Bud-like	Tbf Brown Rhyolite Flow-massive, fine-grained, rhyolite flows that appear to interfinger						consists of a glassy margin of the intrusive that subsequently has been devitrified and alter
				>1500' with base of the Choc Tuff; 1% .02-2.5 mm plag, 1-2% .1-1 mm biotite, gmass of feldspar, limonite, quartz, and biotite						to a light green to white clay; clay still retains devitrified textures; up to 40 ft of vitrophyre
Bud Brecola	Bud bedded pyroclastics (still Choc Fm) BudB	IX Bud Breccia Ti	Fluid volcanics-epiclastic breccia, ogl. sdsi & debris flow	**************************************	UpBud Upper Bud Tuff-tan, brown, white, and red,	Tool surge tuff-includes 3 ft welded lithic ash flow tuff w/clasts	Tbs1 Upper Bud Sequence-well bedded, lithic	***************************************	Thi Bud Tuff-3 distinct lithologic members have been identified	This Bud Formation-effusive & intrusive volcanics ranging from lattic to andestic in composition typically a green, crudely bedded, poorly sorted, lithic lapilli tuff with local interbedded
			deposits with interbedded rhyolite flows; epiclastics	poorly lithified, horizontal layers of well sorted epiclasts; layers may	>150' poorly sorted lithic tuff breccias	>30' of Choc; gradational contact with Bud Surge Tuff [below]	tuff-breccias; graded bedding	commonly include 3 green pyroclastic breccia members separated by 2 fine-grained rhyolite flow members		zones of volcanic breccia and epiclastics
upper pyroclastic member-pyroclastic breccia of welded, flow-banded, crystal- and lithic-rich,	Cb2 well bedded,moderate to well sorted upper	er green to locally brown, crudely bedded,	green and purple The epiclastic deposits, bedded	aggregate 1-3 ft thick showing graded bedding and encompass volcanic  Tbs4 debris of similar composition; at least four groupings within individual stratigraphic				separated by 2 fine-grained rhyolite flow members  Tbup Upper Genuine Bud-generally thin-bedded, green	upper Upper Bud member-latitic, lithic-lapilli ash flow tuff with associated tuff	Ubud fine-grained, base surge deposit (Brady 96) with clasts up to 4 mm in size of fine-grained
	200' pyroclastics; red to brown to pale green	poorly sorted lithic lapilli tuff and volcanic breccia;	1	<80' horizons numbered from 1 at base; interfinger with andesite flows	A CONTRACTOR OF THE CONTRACTOR	The second secon	0 7 9	pyroclastic breccia member	<100' breccia and epiclastics (reworked tuff)	volcanic of uncertain comp; flow laminations are common throughout the unit; clasts are ang to sub-ang & dominated by <1 mm andesitic with rare rhyolite clasts in a clayey matrix;
		variably glauconitic; bleached when altered	7 200			33				light to dark green in color with common chlorite?
	To the second se									Pbx Porphyritic Autobreccia-fine-grained, slightly porphyritic, rhyolitic? autobreccia; clasts are sub-ang to sub-round, lapilli to small block in size, and composed of the same slightly
										porphyritic matrix material; contains 1% clay-altered plag phenos and up to 1% dissem pyrit
										autobrossia appears to be stratabound
										Mbud base surge deposit that contains a base of flow-laminated, mod coarse-grained, mostly class surge, lithic tuff breccia with an avg grain size of .5-1"; basal portion of the sub-unit grades up to 1.5-1"; basal portion of the 1.5-1
										into a fine-grained mostly clast-sup, lithic tuff breccia with an avg grain size of .12°, grading
									continues up into a coarse-grained, matrix-sup, lithic tuff breccia with an avg grain size of .	
									clasts in the upper portion of this sub-unit appear to contain clasts composed of the Choc	
								Bud Mkr Bud Marker Bed member-porphyritic, alkali rhy flow;	generally light green to dark green in color  BMB Bud Marker Bed-porphyritic, andesitic dike or sill; contains up to 4% 1-2 mm sized, lath-sh	
		grey to locally brown, fg porphyritic tuff marker bed; 3-5% euhedral feldspar phenos (up to 3mm) which	Tbc Choc-like rhyolite interbedded with Tbe; sparse bi to several % phenos; includes TMB		UpBrand Upper Brady Andesite-same as lower		Ta Brady Andesite-fine-grained flow, planar flow laminations - intervening lithic tuff	Tbuf Upper marker flow member	Stad Mkr. Bud Marker Bed member-porphyritic, aikaii rhy flow, <120 this flow is often highly fractured, argillized to silicified, and	30-430f phenos of clay-altered plag with possible minor clay-altered augites, pyrite is continon,
	0000000	are commonly replaced by clay or pyrite when	to several to prierios, includes IMB	Ta thin andesite flows, most very fg; 1-3% .022 mm plag; 1-3% .055 mm bi  Tbs3 same as Tbs4, above	Brtuf Brady Tuff-mottled, crystal-lithic tuff; 26.5'		breccia	Temp Middle green pyroclastic breccia member	often contains widespread anomalous gold and silver mineralization	generally light brown; appears to slightly cross-cut stratigraphy [thickens to NE?]
		altered	Tbw Wildrose-like rhyolite interbedded with Tbe; aphyric		LwBrand Lower Brady Andesite-pale green to dark purple vfg			Thif Lower marker flow member		
bedded member-medium to thick bedded, epiclastic and pyroclastic breccia, weak to strong	400°   Fcb2 Bud bedded pyroclastics, as above   lower	er usually green, well bedded, lithic lapilli tuff and	Tbe? same as above	Tbs2 same as Tbs4, above	184.7° andesite; flow-banded on cm to mm; 5% amphibole to 2 mm  LwBud Lower Bud Tuff-heterolithic, non-welded tuffs; dominantly		Tbs2 Lower Bud Sequence-heterolithic, well	Tblp Lower green pyroclastic breccia member	lower Lower Bud member- a latitic, lithic-lapilli (fiamme)	Lbud base surge deposit grading from a strongly flow-laminated, coarse-grained, matrix- to class
welding/cementation; clasts mostly pebble size or smaller; individual beds may display inverse grading		epiclastic rocks with abundant green glauconite		<80'?	>1000' pink rhyolite clasts, locally phyllite chips from basement;		bedded, lithic tuff-breccias & volcaniclastic		0-100' ash flow tuff and tuff breccia, with a minor, discontinuous	40-120 volcanic lithic tuff breccia into a fine-grained, matrix-sup, lithic tuff breccia; light to dark grecontaining common chl; clasts are ang to sub-ang and dominated by <1 mm andesitic with
					locally medium brown, pumice-rich, moderately		units with reverse and normal grading -		epiclastic component	rhyolite? clasts in a clayey matrix, very similar to the Ubud sub-unit
	Tcb2 Bud crystal-lithic tuff LBT	Lower Bud Tuff-red-brown(RBUR), tan and Tv	wr/LBT Wildrose Rhyolite-fine-grained, aphyric, rhyolite flows,	Tbs1 same as Tbs4, above	welded ash flow tuff; coarse lithic tuffs contain pink flow-banded rhy clasts; tuffs are	1 78 24	includes fragments of the Auld Lang Syne Group and clasts of Dozer towards the		LBT unit LBT-comprised of fine-grain, waterlain and airfall tuff and	Lbt LBT Fm-effusive (possibly intrusive?) andesitic to latitic volcanics
erosional cross-cutting relationships, cross bedding; thin silt and clay interbeds with pebble- to cobble-size massive breccia  Tcb1 channel-filling 0-100'	200'	grey lithic tuff and fine-grained to banded	red-brown or purple; typically flow-foliated or	<80'?	deformed near contact	95	base	upper and lower, flow and pyro breccia members and 2	<600' lithic ash flow tuff and tuff breccia; this unit is highly fractured with wide- spread zones of intense arg and fract-controlled to pervasive silicification	
		tuff; when mineralized, it is typically bleached and argillized with a distinctive flesh and/or	laminated; includes LBT Twd intrusive or flow domes					discontinuous, thin-beddd, green, predom pyro breccias Twruf Upper flow and pyroclastic breccia member	1 monolithic, autobrecciated, fine-grain tuff	fgmas fine-grained, massive, andesitic to latitic ash turr or lava now, contains no visible process.
		pale green grey appearance	Indusive of now dornes			The state of the s		The Specific and production of cools inclined	2 massive-bedded, fine-grain tuff	and lacks laminations fgsplat fine-grained, slightly planar laminated, andesitic to latitic lava flow or ash tuff; aphanitic
						1. 45			planar-laminated, fine-grain tuff (with local shearing)     medium-grain, wavy-laminated airfall(?) tuff	
			Twi? intermediate flows, porphyritic						medium-grain, wavy-laminated airraii(?) turi vesicular, flow-banded tuff (leopard spot texture)	famaspk speckled flow-fine- to medium-grained, andesitic to latitic lava flow or ash tuff; contains vi
			та помо, рограните							vesicle sizes and percentages of vesicles, probably confidence with appearance
			2					Turnen Middle group angeles file benedie angele	6 massive, very fine-grain vitrophyre 7 matrix-sup, chaotic-bedded, heterolithic tuff breccia	Bx appears to be a monolithic, matrix- to clast-sup, volc block and ash flow tuff or autobx; class
			Twd same as Twd above					Twrmp Middle green pyroclastic breccia member	8 clast-sup, chaotic-bedded, monolithic tuff breccia	range in size from lapilli to block and are composed of slightly planar laminated ash turn of
						A STATE OF THE STA			9 flow-banded, matrix-sup, lithic tuff breccia	probably correlates to the Pink Matrix Breccia masvit appears to be a fg, massive ash tuff or flow that a portion of which is a clay-altered devit
								Twrlf Lower flow and pyroclastic breccia member	78 10 10 10 10 10 10 10 10 10 10 10 10 10	famos fine grained massive andesitic to latitic ash tuff or lava flow
	Fcb1 channel-filling hetero-lithic tuff							Twrlp Lower green, thin-bedded, pyroclastic breccia member	Oscar Sediments-coarse-grain epiclastics (reworked tuff) with occasional	Tos consists of a latitic? base surge deposit very similar to the Lbud Fm except the Tos Fm of
			200.						0-200' interbedded lithic ash flow tuff	trace amounts up to 5% frags of physilitic (latino?) as petrographically described by Ted Paste
Dozer Tuff-pyroclastic, bedded, poorly welded, crystal poor, rhyodaettic tuff, crystal- and Td		Dozer Tuff-pale green to grey, fine-grained To	Dozer Rhyolite-fg, aphyric, olive brown to sage green	Edf Dozer Formation-probably flow dome complex of rhyolite composition; most is	Toti Dozer Rhyolite		Td Dozer Formation-flow-bended, locally	Tdv Dozer volcanics-probably an early rhyolite flow dome complex; appears that considerable topo relief on top	Tet Dozer Tuff  <1000' aphanitic, fine-grain, siliceous, weakly flow-laminated, ash flow tuff with	fine-grained, flow-laminated (planar) lava flow or intrusive? with areas of autobrecciation
lithic-bearing in places; flow-banded in places; multiple cooling units; multiple vitrophyres near base of unit		densely welded tuff; lacks visible phenos; bleached when altered	(locally pink, grey or purple) rhy flows; variable foliation attitudes; locally includes pyroclastic breccia, undiff	250'- flow-banded, platy rhyolite; 2 specific flow domes identified: one at NE >1500' mouth of Rosebud Canyon, one N of Wildrose Canyon; <1% .12mm	Tdu upper laminated member-pale tan, white to pinkish, flow banded rhyolite; locally spherulitic especially near contact;		vesicular, probably exogenous rhy flow dome(s) with significant relief on its upper		local 'ghost', monolithic autobreccia; where mineralized, the Dozer Tuff	vesicular-rich portions; usually light green in color but can vary into readish browns
	spherulites	Tg	gg Goblin Gulch Dacite-fg, aphyric, magnetite-bearing	sanidine, gmass of quartz, feldspar, magnetite and glass	well developed monolithic autobreccia within		surface	seq; however, are composed dominantly of monolithic,	is fractured, pervasively silicified (near total replacement is not uncommo	on),
Td granular member-granular, tan-colored very tuff thick	2		dacite flow; blocky to planar jointed; dark brown		100 ft of contact		-upper flow laminated zone	dome-related, breccia bodies and some related near- vent flows and flow breccias; best exposures of these	and argillized	
	Td granular member-granular, tan-colored	Tk	weathering; dark grey fresh interior		Tdl lower granular member		(equivalent to "Brown Flow" or Wild Rose Flow Domes)	rocks occur at the E end of Rosebud Canyon		
	very tuff		of Tgg, Twr, and Td; locally bedded epiclastic breccia					The second section of the second section is the second section of the second section of the second section of the second section secti		
	thick		and pebble conglomerate	Tos Oscar-multiple andesite flows similar to "Ta"; most fine grained, one coarser;		H	Tos Oscar Sequence	Tof Oscar Fm-series of intermediate to mafic but predom andesitic volcanic flows and subordinate interbedded		
				5-8% .2-2 mm plag, 4-5% .05-1 mm altered bi, gmass feldspar and hematite			Tos Oscar andesite-andesitic flows, generally fine-grained with flow breccias & tuffs	conglomerate (J-Tr and K clasts) and tuffaceous	3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
								sediment interbeds	BTS Basal Tertiary Sediments-discontinuous, thin (0-100 ft) series of	
	1	transitional sediments-locally occurring basal T	transitional sequence-conglomerate, laminated siltstone				Tos Basal Tertiary Seds-carbonaceous	Ts Sedimentary rocks-generally consisting of sands, silts, grits & cgl which at Dozer Hill directly overlie the J-Tr	BTS Basal Tertiary Sediments-discontinuous, thin (u-100 tr) series of 0-100' carbonaceous sandstone, siltstone, and pebble conglomerate	
		sediments composed of thinly bedded, grey to black siltstone and sandstone derived from Mesozoic	interbedded with basalt flows				sandstone, siltstone, and pebble conglomerate	basement rocks and are presumed to be equiv to the		
		basement rocks						sedimentary portions of the Oscar Formation (Tof)		
Jurassic - Triassic Auld Lang Syne Group - carbonaceous phyllite, minor qtz-rich metasandstone and a	gillaceous metacarbonate, quartz veins					33 4			2.5	
SIVES						H				
andesite intrusive	dikes	IT.	feldspar porphyry intrusions and dikes	Tdi Rosebud Canyon Rhyolite Dome-intrusive breccia with weak flow banding;				Tii Latite dikes and plugs [shown younger than the		
felsite intrusive Tis	sills		100	5% <.2 mm quartz, 2% hematite (after pyrite?), gmass .0105 mm feldspar				Chocolate Formation]		
autoclastic intrusive breccia, rhyolitic(?) matrix and clasts ntrusive rhyolite, probably vent areas of Chocolate Formation				Tcbx Chocolate Vent Breccia-vertical flow banding  Tri small dikes and sills_12% 2-25 mm feldspar 4% 3-2 mm sanidine 1% 3-1 mm		223				
ntrusive myone, probably vent areas of Chocolate Formation				Tri small dikes and sills-12% .2-2.5 mm feldspar, 4% .3-2 mm sanidine, 1% .3-1 mm quartz, 1% biotite altered to chlorite, gmass of feldspar, quartz and glass		4				
			the later than the same of the	Tri Dreamland Intrusive-crystal-rich rhyolite; 30-35% .02-2.5 mm sanidine and		5				
				orthoclase, 20% .5-1.5 mm qtz, 1% .12 mm muscovite, gmass of clay, feld, qtz		60 7				
			104	Tc vent Chocolate Fissure Vent-angular fragments of Ta and Tc  Tbf vent Intrusive Dome for Tbf-intrusive breccia and vertical flow banding	Was the second of the second o	7				
				Td/Tdi Wildrose Canyon Intrusive-flow dome similar to Rosebud Intrusive;						
			The second secon	I THE TAX AND THE PARTY OF THE						