

	symbol	Young	Janecke	Shakel	Wilson	Suem.	Lingrey	Wallace	Hansen	Hot	Spring	mineta	B-K	tortolita	Trever	Dre HV	Dre RV	italian	Tucson mt	color / symbol	notes	key
PLEISTOCENE-HOLOCENE																					PLEISTOCENE-HOLOCENE	
alluvium			Qal	Qal	Qrud		Qal		Qal/Q	Qal	Qa	Qa	Qal	Qal	Qay	Qa				11 white		Ha
older alluvium				Qol									Qoa/Qs							59 pale yellow		Qoa
landslide			Qls												Qls					58 chalk		Qls
colluvium	Qcl								Qc											GET SYMBOL		
alluvial fan									Qf											GET SYMBOL		
terrace											Qt											
PLIOCENE-PLIOCENE																					PLEISTOCENE-PLIOC	
terrace				Q-Ttv			QTqt								QTgs					57 light yellow	terrace	QTty
remnant fandeeep				Q-Trf																	remnant fandeeep	QTrf
paige gravels/basin and range/basin fill							QTg		QTg							QTss	QTg/QTgy			15 yellow	paige gravel/b & r	QTg
marker horizon																m						
landslide																QTsl						QTsl
PLIOCENE																						
Tinaja/quiburis basin fill gravels			Tq	Tt			QTg		Tq	Tq		Tq	Tg	Tg2						56 banana yello	quiburis	Pq
undiff sediments														Ts								
MIOCENE-PLIOCENE																						
MIOCENE																					MIOCENE	
san manuel alluvial ss & fanglo/nogales/younger T sed/big dome/paige							Tsp		Ts/Tbd	Tsm			Tys	Tg1	Tg	Tn				62 gold	basal basalt 22.1	Msm
ultracataclastite																					shattered Yo	
basalt flows													Tb 21Ma							97 deep azure		Mbf
microdiorite														Tim		Td					related to microdiorite	
diorite														Tdd		Td	Td			89 light purple	udiorite on ridge	Mdd
OLIGOCENE-MIOCENE																					MIOCENE-OLIGOCENE	
chloritic bodies																					chloritic bodies	
dark andesite									Tcad											81 plum	dark andesite	Oda
PANTANO/MINETA/CLOUDBURST FORMATION																						
dacite/rhyolite porphyry/misc ir				Tp			Trp	Ti	Tcd/Ti	Ti			Tvd		Tr	Tri/Tr				76 deep rose	dacite	Od
andesitic lahar									Tcla												andesitic lahar	Oal
welded tuff / Tucson Mtn									Tcw													Owt
mylonite schist													uYo							4 70% black	mylonite schist	Tms
latite									Tcl												latite	OI
intrusive																						
up fan & conglom																	Tpu				upper fanglo & conglom	
upper fanglomer																	Tpuf					
Rincon V gd MB									Tcm								RV MB					Ogb
mega breccia																				65 peach	megabreccia	T*b
rhyolite MB																	RR MB					Orb
martin MB													Tgp				M MB					Omb
abrigo MB																	A MB				triangle w/ a	Oab
Bolsa MB																	B MB				triangle w/ b	Obb

	Waag	Young	Janecke	Shakel	Wilson	Suem.	Lingrey	Wallace	Hansen	H Sprin	mineta	B-K	tortolita	Trever	Dre HV	Dre RV	italian	Tucson mt	color	notes	key					
CRETACEOUS																					CRETACEOUS					
pebble conгло to mudstone																				51 moon green						
ignimbrite 68-64																										
andesite lava flow																										
andesite breccia 74																										
ignimbrite 76																										
intrusive dio & andesite porph																										
IK																										
bisbee group			Kb				Kbg			Kb					Kb	Kb	Kb				50 chartruee	bisbee	Kb			
weakly																					40 spring green	horiz solid				
moderately																						vert double				
strongly																						cross triple				
very strongly																						x-cross quad	Kbm			
glance conгло																Kbg	Kg					glance conгло				
JURASSIC																						JURASSIC				
volcanic conгло																						volcanic conгло				
PALEOZOIC																										
undiff P strata							Pzu									Pzs						30 sky blue	undiff P	Ps		
undiff marble							um																			
undiff marble, sili marb, calc-silicate													ms		Pzm							12 blue	undiff meta Ps	Psm		
calcareous cataclastic																Pzmc										
Naco Group			Pns																			13 cyan	naco	PP		
Pns upper qtzite			Pn																				Pns upper qtzite	PP		
LOWER PERMIAN																							LOWER PERMIAN			
concha													Pc		Pcn	Pcn							concha	PP		
scherrer													Ps		Ps	Ps							scherrer	PP		
epitath dolomite															Pe	Pe							epitath	PP		
colina limestone															Pc	Pc							colina	PP		
LOWER PERM to UP PENN																						LOWER PERM to UP PENN				
earp															IPPe	IPPe	IPPe						13 cyan		PP	
weakly meta																							29 desert blue	vert double	PPm	
moderately meta/earp up calc-silicate							ep																cross triple		PPm	
UP & MID PENN																								UP & MID PENN		
horquilla							Ph								Ph	Ph	Ph						22 powder blue	horquilla	Ph	
weakly																							25 electric blue	horiz solid	Phm	
moderately																							vert double	meta horq		
strongly																							cross triple	meta horq		
very strongly/e&h marble & calc-silicate					Ph		ep																x-cross quad	meta horq		
LOWER PENNSYLVANIAN																										
maroon shale is basal black prince																								maroon shale		
MISSISSIPPIAN																								MISSISSIPPIAN		
escabrosa			Me			Me	Me								Me	Me	Me						31 ice blue	escabrosa	Me	
marble/escabrosa weakly deform							eh																41 turquoise	meta/weakly deform	Mem	
esc. Brecciated																							cross double	brecciated		
DEVONIAN																									DEVONIAN	
martin			Dm		Dm	Dm	Dm								Dm	Dm	Dm						33 ocean green	martin	Dm	
meta martin																							52 murky green		Dmm	

	Waag	Young	Janecke	Shakel	Wilson	Suem.	Lingrey	Wallace	Hansen	H Sprin	mineta	B-K	tortolita	Trever	Dre HV	Dre RV	italian	Tucson mt	color	notes	key			
CAMBRIAN																					CAMBRIAN			
abrigo	Ca	Ca	Ca		Cau*	Ca	Ca					Ca		Ca	Ca	Ca				24 baby blue	abrigo	Ca		
m A&M low c-s																					meta Ca&Dm			
sb qtzite			Cas		Csbq																38 kentuc green	Ca southern belle		
abrigo peppers			Cap		Cap																54 khaki	Ca pepperause		
abrigo conglo			Cat		Cac																43 faded green	Ca conglo/three c		
meta abrigo/m A&M low c-s							am							Ca'							28 deep navy blu	meta abrigo	Cam	
bolsa	Cb	Cb	Cb		Cb	Cb	Ct					Cb		Cb	Cb	Cb					32 lt blue-green	bolsa	Cb	
m bolsa & apache basal qtz							ab							Cb'		Cbm					42 sea green	meta bolsa	Cbm	
PRECAMBRIAN Y																						PRECAMBRIAN Y		
diabase	pCd		Ydb		Ydb			diabase	db/sym				Ydb		Yd						92 deep purple	diabase 1.1 - 1.2	Ydb	
meta diabase						a						Ys		pCd'		Yd						metadiabase	Ydbm	
undiff Yds & Ydb												Ys Yd									87 maj purple	undiff diabase & ds	Ydsdb	
Yd (erickson) dacite/dacite					Yd																78 deep pink	dacite	Yd	
Ys pC sedimentary																								
mescal limestone					Ym			pCm Ya													9 20% black	mescal limestone	Ym	
Apache group		Ya											Ya								34 moss green	apache group	Ya	
drip spr qtzite	pCds		Yds		pCdsq	Yds		pCds				Yd			Yds	Yds					6 50% black	quartzite	Ydq	
drip spr mqtzite	-mqtz															Yds						ds mqtzite	Ydqm	
drip spr phyllite	-phyll																				7 40% black	phyllite	Ydp	
barnes conglo	-Bmcon				Yb			Barn con								Yds					36 forest green	barnes conglo	Ybc	
pioneer shale			Yp		Yp			pCp				Yp			Yp	Yp					55 olive	pioneer	Yp	
scanlon conglo					Ysc																1 black	scan conglo	Ysc	
autochthonous metadiorite																	Ydi					metadiorite		
														Xqd										
																					89 light purple	diorite	Yd	
oracle monz por/cont grndio			Yo		Yo			gr gm	ru / or					Yo							20 pink	oracle	Yo	
meta cont grndio						pCcm															79 hot pink		Yom	
cont grndio intruded by lit par lit Tw																Yc	Yc				intrudes Xj	1.4-1.45 Ga		
catalina gneiss				pCgn	pCcg																		T combine 7 as sec-	
pont rid cataclas				pCpr																			tion in overall of dome	
cb augen gneiss				pCcb																		4		
wb migmatite				pCwb																				
bl augen gneiss				pCbl																				
frs migmatite				pCfr																				
bc augen gneiss				pCbc																				
PRECAMBRIAN X																						PRECAMBRIAN X		
altered Xj																						Xj phengite	RV Pistol Hill 3a(T)	Xjph
JL RV grndio						pCj								pCj	Yr, Yj	Yr					84 violet	1.625 Ga	Xj	
quartz diorite & grndio derived from madera							gd	gd						Xqd								*medera?	quartz diorite	Xqd
pinal schist						pCp		pi		Xp	Xp	Xp			Xp						35 dark green	1c	Xp	
Xp metamorphosed																					45 mint green		Xpm	
Xp tectonized																					46 army green		Xpt	
quartzite & phyllite/undiff schist, phyllite, qtzite/metaqtzite, metaconglo														pCpa'	Xpq	Xpq					35 1d		Xpq	
metaqtzite /Erickson (Xp) qp															q									
metaconglo															c (Ybc)									
schist & aplite of Ywa *T event of schist event??															Xpa								aplite, schist of Ywa	