	INARY		Aa	<u>Ac</u> A					
CENOZOIC	QUATEF		Aluvial units Aa Alluvial plain Apc Claypan; locally with salt efflorescences Au Superficial channel						
					Crg	Cikm	Cim	Wr	
			Colluvial units C_el C_ez C_f C_fg C_{fg} C_{fm} C_{fm} C_{fm} Sheetwash units	liment at foot of breakaway; dominated by luvium; quartz luvium; dominantly quartzofeldspathic matu luvium; magnesite luvium; dominantly ferromagnesian materic vetwash fan; very gently inclined landform	vein quartz rubble and ferrug erials :ls (< 1° slope); extremely low re	inous lag lief			
			Eolian units E_e S E_r E E_k E E_k E E_t E E_w S	id dune an sandplain an sandplain overlying alluvial-playa plair an veneer over alluvium and/or colluvium ale	; subsurface calcrete and abu	undant m-scale calcrete ric	iges and mounds		
			Rd	Rf Rrkg	R _r z.				
			Residual or relict unit Rd F Rf F R _r k _g G R _r z E	nits Residual soils overlying saprolite and ferruginous material; locally with pedogenic calcrete Residual or relict ferruginous materials; including: ferruginous and ferruginized saprolite, ferruginous duricrust; also includes transported material; cemented or uncemented ferruginous gravel Groundwater calcrete; locally forms low mounds; nodular to massive; commonly with alternating layers of carbonate and chalcedony Duricrust fresidual or relich: silcrete					
			Petermann Orogeny (c. 570–530 Ma ¹)						
NEOPROTEROZOIC			Pod	Ezq / Emoc	i /				
			Eod E Ezq M Emod M	erite dyke, sill or plug; fine- to medium-gro ssive, coarse-grained vein quartz adolerite and dolerite of various ages; typ	ined dolerite and gabbro; inte	rpreted from aeromagnetic	c data where dashed coronas around pyroxene		
	EmyyMU Mylonite and blastomylonite; unassigned; predominantly felsic and locally garnet-bearing								
	_		Giles Event (<i>c.</i> 1	32–1060 Ma ¹²³)					
	1075-1060 Ma ³		PWK-mgry	EWK-mgyd EWK-grah	EwK-grl	EWK-grb			
			EWK-mgry M EWK-mgyd M EWK-grah F EWK-grl F EWK-grb M	onitic syenogranite; leucocratic but typical onitic leucogranite; strongly epidotized and o-grained, leucocratic hornblende syenogra o- to medium-grained, porphyritic to seriatr rare rapakivi texture sive, medium- to coarse-grained biotite sy	y contains mafic xenoliths; loc d cut by abundant quartz and unite; locally granophyric textu e-textured syenogranite; leucoo venogranite; typically with abu	cally abundant K-feldspar pegmatite veins re and with acicular or ske rratic but typically contains ndant K-feldspar phenocry	phenocrysts up to 1 cm eletal hornblende s mafic xenoliths; locally o sts up to 3 cm	abundant K-feldspar phenocrysts up to 1 cm;	
			EWKg3-odp	Fine- to medium-grained plagioclase-pl	nyric gabbro; ophitic texture; p	olagioclase phenocrysts an	d glomerophenocrysts to	2 cm	
	<i>с.</i> 1075 Ма		EWKg2-og	EWKg2-oga EWKg2-og	EWKg2-ogz				
			<u>- PWKg</u> 2-moad	PWKg2-moay PWKg2-mog	ју PWKg2-xog-g	PWKg2-xoga-g			
	Marakurna Supersuite		 BWKg2-og Medium-grained, even-textured gabbro; locally olivine porphyritic BWKg2-oga Massive to strongly foliated, fine-grained leucogabbro to leucogabbronorite; ophitic to subophitic texture with granoblastic interstitial pyroxene; locally associated with chill margins; locally mylonitic; locally epidotized and cut by abundant quartz and pegmatite veins BWKg2-ogz Magnetite-rich gabbro; ophitic to subophitic texture; locally biotite-rich and mixed and mingled with leucogranite BWKg2-ogz Massive, weakly metamorphosed gabbro; well-developed ophitic to subophitic texture with oikocrysts up to 1 cm; locally epidotized and cut by abundant quartz and pegmatite veins BWKg2-moay Mylonitic amphibolite after fine- to medium-grained gabbro BWKg2-moay Mylonitic developed on or from mixed and mingled gabbro and leucogranite BWKg2-sog-g Gabbro; ophitic texture; variably mixed and mingled with leucogranite; locally foliated and mylonitic texture; variably mixed and mingled with leucogranite; locally foliated and mylonitic texture; variably mixed and mingled with leucogranite; locally foliated and mylonitic texture; variably mixed and mingled with leucogranite; locally foliated and mylonitic texture; variably mixed and mingled with leucogranite; locally mylonitic BWKg2-xog-g Moderately to strongly foliated, fine- to medium-grained leucogranite; locally mylonitic; locally epidotized and cut by abundant quartz and pegmatite veins BWKg2-xog-g Moderately to strongly foliated, fine- to medium-grained leucogranite; locally mylonitic; locally epidotized and cut by abundant quartz and pegmatite veins 						
	≥1078 Ma	es Suite	PWKg1-xo-a	EWKg1-oany EWKg1-otly	/ BWKg1-otn	EWKg1-og	/EWKg1-ogj		
		Gile		PWKg1-ol PWKg1-oly	Р₩Кд1-оо	EWKg1-oojy	EWKg1-moe		
			EWKg1-xo-a L EWKg1-oany M EWKg1-otly C EWKg1-otly C	ered mafic-ultramafic intrusions; undivided dium-grained anorthosite interlayered on a irse-grained leucotroctolite; layered; cumul ine-rich tractolite; olivine polikilitie to grang	cm- to m-scale with troctolite ate texture with glomeroporph	and olivine gabbronorite yritic olivine commonly en 70% olivine: locally foliate	closed in orthopyroxene		

 EWKg1-og
 Medium-grained, even-textured gabbro; locally olivine porphyritic

EWKg1-ogj

Fine- to coarse-grained gabbro; interstitial magnetite typically penetrates mineral fractures



PHANEROZOIC

Bentley Basin

USGRAVE PROVINCE