



Supplementary Table 1. lithology units and their descriptions in the study area

G	Unit	Description	
	Cm	Dark grey to black fossiliferous limestone with subordinate black shale	
A	Cl	Dark red meddium - grained arkosic to subarkosic sandstone and micaseous	
		siltstone	
	D	light red to white, thick bedded quartzarenite with dolomite intercalations and	
В	Dp	gypsum	
С	DCkh	dark grey limestone, greenish marl and shale, locally includin gypsum	
	Ekh	Olive - green shale and sandstone	
	E1m	Marl, gypsiferous marl and limestone	
	Jsc	Conglomerate	
	Jd	greenish - grey argillaceous limestone with intercalations of calcareous shale	
D	Jl	Light grey, thin - bedded to massive limestone	
	Jmz	Grey thick - bedded limestone and dolomite	
	Jch	Dark grey argillaceous limestone and marl	
	Kat	Olive green glauconitic sandstone and shale	
	Ksn	Grey to block shal and thin layers of siltstone and sandstone	
	Ksr	Ammonite bearing shale with intercation of orbitolin limestone	
_	Ku	Upper cretaceous, undifferentiated rocks	
E	Kad-ab	Undifferentiated unit including argillaceous limestone, marl and shale	
	Kl	Lower Cretaceous undifferentiated rocks	
	K	Cretaceous rocks ingeneral	
	Ktr	Grey oolitic and bioclastic orbitolina limestone	
	Murm	Ligth - red to brown marl and gypsiferous marl with sandstone intercalations	
F	Murm		
	g	Gypsiferous marl	
	PlQc	Fluvial conglomerate, Piedmont conglomerate and sandstone.	
	Pz	Undifferentiated lower Paleozoic rocks	
G	pC-C	Late proterozoic - early Cambrian undifferentialed rocks	
	Pr	Dark grey medium - bedded to massive limestone	
	Pz1a.b	Andesitic basaltic volcanic	
	v		
	Pd	Red sandstone and shale with subordinate sandy limestone	
	pCmt2	Low - grade, regional metamorphic rocks (Green Schist Facies)	
	Plc	Polymictic conglomerate and sandstone	
Н	P	Undifferentiated Permian rocks	
	Qsw	Swamp	
	Qft2	Low level piedment fan and vally terrace deposits	
	Qm	Swamp and marsh	
	Qft1	High level piedmont fan and vally terrace deposits	
	Qs,d	Unconsolidated wind blown sand deposite including sand dunes	
	Qal	Stream channel, braided channel and flood plain deposites	

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	TRe	thick bedded grey o'olitic limestone; thin - platy, yellow to pinkish shaly limestone
J	TRe2	Thick bedded dolomite
	TRJs	Dark grey shale and sandstone