

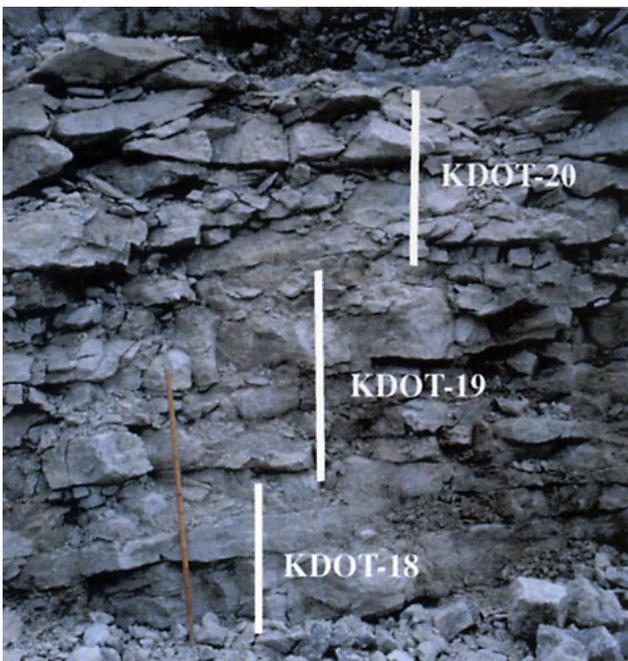


(A)

**Figure A1.6.** Outcrop photos of quarry exposure in the Olathe Aggregate Quarry. Section was measured in the southeast corner of the quarry.

(A) Thick outcrop of siltstone facies makes up the Island Creek, lower Farley and middle Farley equivalent units here. This is the Lane Shale located in the south of the field area.

(B) Upper Farley outcrop with locations from which aggregate samples were taken marked.



(B)

Rock Unit(s): Fabens Creek Valley

Thickness	Lithology & Weathering Profile	Fossils & Grains	Sed. Struct & Diag. Feat.	Rock Name (Dunham)	Cement	Color	Sample No.	Photo No.	Additional Remarks
		$\phi$ $\phi$ $\phi$		De midstone Coal Seam  Laminated, lenticular Siltstone		Black         Med-Dk Gray			Dark, organic rich shale  Plant material common Not much leaf & body fossils. Darkens in color up towards the coal seam. Ripple laminated lenses of fine sand.

Date 8/6/97

1:10cm

Location Chatham Ass. Co. Quarry

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Rock Unit(s): Fossiliferous rock in quarry

Thickness	Lithology & Weathering Profile	Fossils & Grains	Sed. Struct & Diag Feat.	Rock Name (Dunham)	Cement	Color	Sample No.	Photo No.	Additional Remarks
4cm		~ 0.5							
10cm		~ 0.5	A.B.	Pyrit. Alget Wackestone	Spon. replaced fills phylloid algae + other fossils (~10-15%)		DA4		* Marker Bed  Clay abs. @ base but less abs. upward  (~30% has d. Fossils)
				Osgon Wackestone			DA3		
				St. Pecten					
10cm		~ 0.5 ~ 0.5 ~ 0.5		Fossilif. S. Hobson		DL Gray	DA2		All plant material Fossil fragments
10cm				Compound skeletal Pecten	No coarse cement		DA1		Compound shell debris + style intricate shells have flat like into shell; very cherty

Date 4/6/97

Location Clinton Agg. Co. Quarry

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Rock Unit(s): Series 15

Thickness	Lithology & Weathering Profile	Fossils & Grains	Sed. Struct & Diag. Feat.	Rock Name (Dunham)	Cement	Color	Sample No.	Photo No.	Additional Remarks
26m+		N#10	A.B.	Phylloid Algal Wackestone					Beds are separated by thin, concentrated shale seams that diffuse above and below ~9% of clay per bed = 5-10%
37cm		N#11	A.B.	Phylloid Algal Wackestone	Spine filled fractures, fossils & molds (12x-30%)		0A-7		Spines show a bit not overly coarse In all cases no det. sizes greater than 1-2mm were observed
28		N#12	A.B.	Phylloid Algal Wackestone					
30		N#13	A.B.	Phylloid Algal Wackestone			0A-6		
23		N#14	A.B.	Phylloid Algal Wackestone			0A-5		
34cm		N#15	A.B.	Phylloid Algal Wackestone					

Date 8/6/97

Location Clatke Agg Co Quarry

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Rock Unit(s): Fishy - 3/ Banner

Thickness	Lithology & Weathering Profile	Fossils & Grains	Sed. Struct & Diag. Feat.	Rock Name (Dunham)	Cement	Color	Sample No.	Photo No.	Additional Remarks
53m				Staly Conglomerate					Large clasts of what appear to be physl. algal Wackestone.  Makes thick massive beds topping the fishy.  Clasts pack into a hardened, cherty matrix
26		~# 4-B.		Physl. Algal Wackestone	as below				as below.
22		~# 4-B.		Physl. Algal Wackestone					

Date 8/6/97

Location Obiter Agg Co. Quarry

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**Locality RQ:** Quarry section. Measured in an active quarry operated by Reno Construction Company. Quarry is located on 161st Street and Switzer Road. Section was measured in the northeast corner of the quarry just south of 161st Street. Measured section includes a complete Farley Limestone and Island Creek Shale section. The Argentine Limestone is well exposed in this quarry as well. The Bonner Springs Shale is absent here.

