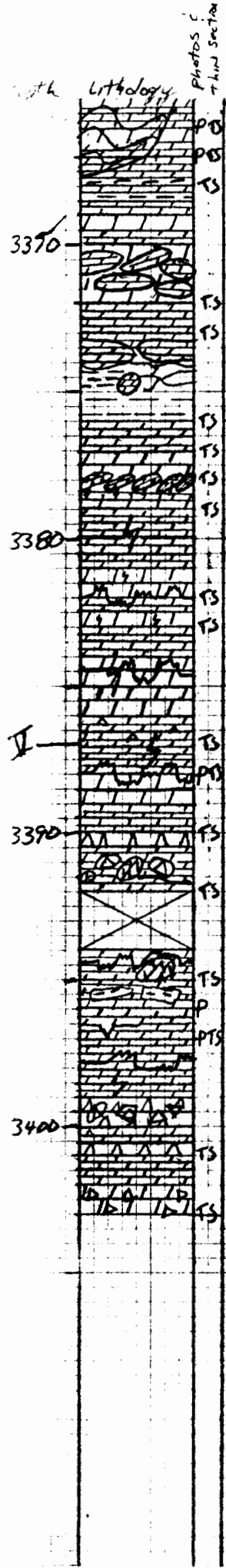


3355 3404 core #2

3355 3404 core #2

C Sw Se 17 16s 10w		3355 3404 core #2	
Depth	Lithology	Description	φ Good K Good 90 cht
I	3325	Dolomite, lt-m gray, w m brown, intraformational (?) congl, with smud, lt gray-green, dk green in part, swelling, abt. dolomite csts	
II	3330	Dolomite, dk gy-brn, low angle cross bed, abt. acid csts, vuggy, gn mud filling in part, thin vertical fractures, Dolomite csts in part, etc. Gost (?) csts, Tr Pyrite, Oil Stn	
	3340	Dolomite, lt-m gray, Flat pebble congl to thin bedded Dolomite / Dolomite, abt. pin point porosity, Tr swelling mud - aa Bec. wavy bedded w Dolomite / Dolomite, stylolitic, desiccation features, Tr gn sh, oil stain, few vugs, few frags.	
	3340	Dolomite, lt-m gray, Thin bed, desiccation features, Interbed with Dolomite, fenestral fabric, gn mud in part Beds bec horizontal, stylolitic in part, Large vert. frac, few vugs	
	3340	Sh, gn, waxy, laminated w lt gy Dolomite, grading to Dolomite	
	3340	Dolomite, dk gy, dense, horiz bed, Tr gn mud bec m. dk brown, abt. pin point porosity, few vugs, few frags, stylolitic, oil stain, Bec imbricated flat pebble congl, v. frac & v. vuggy	
	3340	Dolomite / Dolomite, horiz interbed pin point pores, few vugs & frags, Tr chert, oil stain, bed bec consolidated, vuggy, thin bands of acid csts, Beds bec thicker, horizontal, increase vugs & frac	
	3340	Tr swelling clay, stylolitic, oil stain	
	3340	Dolomite, m brown, dense, Tr frac, no vugs, stylolitic, Bec acid cast, m gy, increasing vugs, flat pebble congl to thin, interbedded Dolomite / Dolomite, Tr pyrite, Oil stain	
	3340	Dolomite, aa, bioturbated (?) vuggy, frac, stylolitic, Tr pyrite, w increasing chert, bedded chert, lt-m gray, w earthy wh "halos", v. frac. in part	
III	3360	Dolomite, m gy / brown, stromatolitic, horizontal to angular bed sets, abt. fenestral vugs, few frags, stylolitic in part, chrt replaced in part, v oil stain	
IV	3360	Dolomite, m gy, round pebble congl w stylolitic pebble contacts, few vugs, frags, w oolitic chrt bed, wh-gy, vit w earthy "halo". Becoming horizontally bedded	
		lt-m gy Dolomite, pin point pore, frags, gn sh lens in part	



Description

Dolomite, m brn w/ gy Dolomite clasts, stromatolitic clasts in part,
Dolomite, light gray, interbedded w/ shale, dk brn, waxy
Dolomite, m-dk brown, interbedded w/ Dolomite, acid cast ip, chert, wh-ltgy, w/ Tr wxy gn sh, w/ fine Qtz sand in part
— Several inches MISSING at 69 feet —
Dolomite, flat pebble conglomerate, aa, to m. brn
Dolomite, fossil casts? ip stylolitic, xlm full frac & vugs, oil stain, Bedding becomes mottled, lt-m brown
Dolomite, few vugs, few frac, Tr gn sh
Shale, gn w/ gy gn, wavy horizontal lamination, Tr Qtz sand, Tr chert sand
Dolomite, mgy, aa, Dolomite, ltgy brn, cross bedded? acid cast, abnt vugs, few frac, w/ imbricate Dolomite clast at base. Bedding becomes mottled
Dolomite, lt brn, horie bedded, few vugs, acid cast ip, Tr gn mud, oil stained
Dolomite, m brn, interbedded w/ Dolomite, frac, vuggy, mottled stylolitic
Dolomite, light gray, horizontal beds to mottled beds, few fractures, few vugs, oil stain, trace earthy white chert
Dolomite, lt gray to green brown, horizontal to wavy beds, v sandy in part, stylolitic, breccia in part
Chert, gray-white, vit-carthy, becoming chert and gray Dolomite conglomerate w/ brn Dolomite matrix, Tr green mud
Missing 2 feet
Dolomite, lt brown + dk brown, horizontal to wavy bedded, Tr gn & wh muddy clasts, abnt small vugs, few fractures, Tr stylolites, acid cast in part, Desiccation features in part
Dolomite, aa, mottled, abnt small vugs, few fractures, stylolitic in part, oil stained, bec chert breccia, gy-wh chert, vit to earthy, changing abruptly to horizontal bedded, gy gn Dolomite, Bedded chert ip
Dolomite, m brown, abnt chert pebbles, few vugs

Key to Log Symbols

Lithology

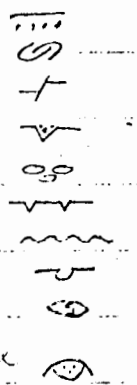


Breccia
Congl.
SS
Silt.
Sh. (gray, yellow, red, white, brown)
Sand.
Ls.
Dol.
Dolomite
Anhydrite
Gypsum

Contact

Alt - alternating
Grd - gradation
Shp - sharp
Ers - Erosion
Filt - Faulted

Str. Stru.



Bedded bedding
contorted
compaction faults
cut and fill
intraform. conglom.
mud cracks
stromatolites
burrows
nodules, concretions
(S-silica, A-anhydrite, P-phosphate)
internal sediment
fractures (structural, non-tectonic)
micaceous bedding (mat. chert bedded)
stylolites
irreg. shaley partings in ss, ls. or dol. (wispy clay lamination)
SLK
fenestral lamination

Contact

M - matrix
C - calcite
D - dolomite
A - anhydrite
Cl - clay
S - silica

Porosity

Tr (transverse)
L - leached
V - vuggy
F - fracture

Column

unstratified
Thick > 20 cm.
Medium 5-20 cm.
Thin 1-5 cm.
Laminar < 1 cm.

14 of 14

+

Edwards
Matousch #2

13 of 14

Sample Number	Described by: <u>Steinhilff</u>		Bed Number	Unit Name	Features	County/State <u>Ellsworth KS</u> Section <u>17</u> T. <u>16S</u> R. <u>10W</u> Remarks: <u>CAN 512</u>
	Date: <u>12/16/1997</u>					
	ft.	10 cm				
		Measured section				
						No. Stratigraphic Description
27						ooid bearing intracrystalline grst/Packst
28						ooid granst
29						rel wack mot. mudst/wack greenish
30						Green shale wackst mudst/wacks, mot text
31						rel wack - oncoids? Laminates - rel wackst interlams green clay filled Packst - bedded minor mudst/psos. ls
32						interbedded rel wackst & mudst Bundles up interbedded packst/wackst
33						

Sheet wgs
m

Pack lens m

"grainy" fill

m
v
m
m
m
m

open fract
? mud cracks

? core

Edwards
Matousch #2

12 of 14

Sample Number	Described by: Steinhilff		Bed Number	Unit Name	Features	County/State <u>Ellsworth KS</u> Section <u>17</u> T. <u>16S</u> R. <u>10W</u> Remarks: <u>CNW SE</u>
	ft.	10 cm				
33						
33						
34						
35						
36						
37						
38						
39						

v
 m
 m
 fract
 Fract or mudcracks?
 open fract v
 m
 m

Bedded
 Pel wack/pack
 mud lens
 Probably packstone
 Pel wack/pack
 Bedded local mat text
 Pel wackst, yellow
 Pel wackst Green
 Shaly mudst
 Green shale
 mudst, yellow-green
 Interclastic -
 Pel wack pack Congl.
 Pel wack/pack
 Intra fm congl with
 Pack/grn matrix (Pel wack/pack
 clasts)
 Pel wack/pack

Bunk
 mud/lens
 wack/pack
 silice
 G/P
 G/P
 w
 w
 w
 w
 w
 w
 m
 m
 m
 w/p
 w/p
 m
 w/p
 w/p
 w/p
 m

71 of 14

pel. (wackstone) clasts

10 of 14

Coated
gains

8 of 14

Oil $\rightarrow$
Newly

Obid →
beating
? modcracks.

m going full

green shale
F.H.? or
dep. ?

7 of 14

[illegible]

6 of 14

Sample Number	Described by: Steinhilff		Bed Number	Unit Name	Features	County/State Section 17 T. 16S. R. 20W Remarks: <u>CAW SIS</u>
	Date: 12/16/1997	ft. 10 cm Measured section				
369						
70						
71						
72						
73						
74						
3375						

5 of 14

337

Edward's
Matousch #2

4 of 14

Sample Number	Described by: <u>Steinhart</u>		Bed Number	Unit Name	Features	<table border="1"> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table>																	County/State <u>Ellsworth, KS</u>
Date: <u>12/16/1997</u>		Section <u>17</u> T. <u>16S</u> R. <u>10W</u>	Remarks: <u>SW SE</u>																				
ft.	10 cm	Measured section																					
						No. Stratigraphic Description																	
3381			3381	dark mudst		lam mudst																	
82			3382	mod. wackst		mod. wackst																	
			3383	massive mudst		massive mudst																	
			3384	dark mudstone		dark mudstone																	
			3385	? Pel wackst		? Pel wackst																	
			3386	Post. part. wackst / dark lam mudst		Post. part. wackst / dark lam mudst																	
			3387	bedded mudst		bedded mudst																	
				? mudcracks		? mudcracks																	
				dark lam mudst		dark lam mudst																	

Edwards
Matousch #2

3 of 14

Sample Number	Described by: <u>Steinhoff</u>		Bed Number	Unit Name	Features				County/State <u>Ellsworth, KS</u> Section <u>17</u> T. <u>16S</u> R. <u>16W</u> Remarks: <u>Gall SE</u>
	Date: <u>12/16/1997</u>				No.	Stratigraphic Description			
	ft.	10 cm					Measured section		
3387									
3388									yellow mass mudst lam. mudst
3389									yellow mudst coated-gran wackst
3390									Green shale dark mudst congl/chalky matrix Stromatolitic/mudst
3391									Algal lam. mite
3392									
3393									mot. wack/pack, dark

Oncoids

m

m
m

3393

Edward's
Matousch #2

2 of 14

Sample Number	Described by: <u>Steinhilff</u>		Bed Number	Unit Name	Features	County/State <u>Ellsworth KS</u> Section <u>17</u> T. <u>16S</u> R. <u>10W</u> Remarks: <u>Cano Ste</u>
	Date: <u>12/16/1997</u>					
	ft.	10 cm				
		Measured section				
						No. Stratigraphic Description
33 93	m			Band		Stromatolites, some Chertoid
33 94	m			mud/clark		Pack Granstone matrix with mudstone lenses (algal stuct?)
33 95	m			Pack		Pack - Intraclastic Congl. Grainst bed
33 96				P		mol. matrix all/dem st Pockstone
33 97	m			P		dark lam mudst algal fabrics
33 98	2m			P		
33 99				P		lom. mudst

Edwards
Matousch #2

1 of 14

Sample Number	Described by: <u>Steinhilff</u>		Bed Number	Unit Name	Features					County/State <u>Ellsworth KS</u> Section <u>17</u> T. <u>16S</u> R. <u>10W</u> Remarks: <u>CNW SE</u> <u>C SW SE</u>
	ft.	10 cm			Measured section	No.	Stratigraphic Description			
33 99										1cm mudst
										Chert breccia, mudst matrix
										erosional
										1cm yellow mudst
34 00										} 1/2 x-ray shale "Kink"
										middle grains packst
m 34 01										mudst congl
34 02										bedded chert
										Chert bed stromatolites,
										Chert breccia / mud matrix
34 03										stromatolites - some che tip.
34 04										Chert breccia in mudstone
34 05										

Bottom of core