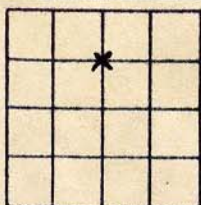
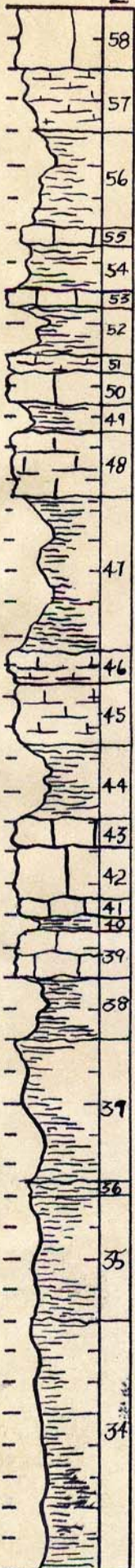


# State Geological Survey of Kansas

Scale 0' Features Unit Sec. 21 T. 4 S., R. 9 E County Marshall Date 1932



Locality description 0.5 mile south of Frankfort, on the highway.

Measured by M.K. Elias

Remarks

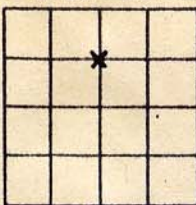
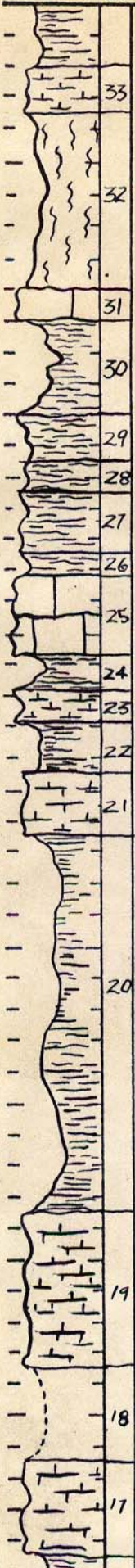
No.	Description	Thickness
NEVA LIMESTONE FORMATION		
58	LS - fossiliferous	2.0
57	MST - splittery, softer toward top, crinoid joints	2.0
56	SH - calcareous, splittery, numerous <u>Triticites ventricosus</u> about 1 ft. from top and numerous <u>Ambocoelia planocovexa</u> 1.5 to 2 ft. below top.	3.0
55	LS	0.5
54	SH - gray	1.5
53	LS	0.5
52	SH - gray, <u>Spirifer</u> and small <u>Chonetes</u> near the base.	1.5
51	MST - splittery, same fossils as above.	0.5
50	LS - fossiliferous	1.2
49	SH - gray	0.8
48	LS to mudstone - splittery	2.0
47	SH - gray	5.0
46	MST - light gray, somewhat cavernous and banded, micro-fossils (ostracodes?) near top.	1.0
45	MST - light gray, massive.	2.0
44	SH - gray, to fissile dark gray	2.5
43	LS - dark gray, somewhat earthy, <u>Juresania</u> and <u>Myalina</u>	1.0
42	LS - dark gray, fossiliferous.	1.5
41	LS - dark gray, banded.	0.5
40	SH - gray	0.5
39	LS - gray, somewhat earthy, <u>Aviculopectin</u>	1.5
38	SH - greenish gray, few purple spots	2.0
37	SH - chalky, greenish white, irregular weathering	4.5
ROCA SHALE FORMATION		
36	SH - light green	0.5
35	SH - purple with dark bluish green spots.	4.0
34	SH - greenish, few purple and dark green spots near top, calcareous in middle.	10.0

( CONTINUED ON NEXT PAGE )



# State Geological Survey of Kansas

Scale No. Features Unit Sec. 21 T. 4 S., R. 9 E. County Marshall Date 1932



Locality description 0.5 mile south of Frankfort, on the highway

Measured by M.K. Elias

Remarks

No	Description	Thickness
(CONTINUED FROM PREVIOUS PAGE)		
HOWE LIMESTONE MEMBER		
33	MST - massive, light green	1.5
32	CLAY - green, fine, sandy	5.5
31	LS - impure, cavernous, roughly weathered, a net of calcite and quartz veinlets, orange ochre between veinlets	1.0
30	SH - chalky, splittery	3.0
29	SH - calcareous, gray	1.5
28	SH - dark gray, <u>Orbiculoidea</u>	1.0
27	SH - black, fissile	2.0
26	SH - gray	0.7
GLENROCK LIMESTONE MEMBER		
25	LS - hard, yellowish, full of fusulinids	2.5
JOHNSON SHALE FORMATION		
24	SH - gray, chalky nodules	1.0
23	MST - gray	1.0
22	SH - gray	1.5
21	MST - splittery	2.0
20	SH - yellowish gray	12.0
LONG CREEK LIMESTONE MEMBER		
19	"BOXWORK" - crystalline, with yellow ochre	5.0
18	COVERED	3.0
17	"BOXWORK" - crystalline, with yellow ochre	3.0
(CONTINUED ON NEXT PAGE)		



# State Geological Survey of Kansas

Scale  $\frac{1}{2}$  Features  $\frac{1}{5}$  Unit

Sec. 21 T. 4 S., R. 9 E. County Marshall

Date 1932

Locality description 0.5 mile south of Frankfort, on the highway

Measured by M.K. Elias

Remarks

No	Description	Thickness
(CONTINUED FROM PREVIOUS PAGE)		
UPPER HUGHES CREEK SHALE MEMBER		
16	SH - gray	6.0
15	SH - with <u>Triticites ventricosus</u>	2.0
14	MST - fossiliferous	0.2
13	SH - gray	2.3
12	LS - tough, fossiliferous, <u>Marginifera</u> at top	0.3
11	SH - gray	1.0
10	MST - fossiliferous	0.3
9	SH - gray, with fragmentary fossils	1.5
VLIETS LIMESTONE BED		
8	LS - on top numerous <u>Bellerophon</u>	0.2
LOWER HUGHES CREEK SHALE MEMBER		
7	SH - gray, very fossiliferous: <u>Chonetes</u> , <u>Spirifer</u> , <u>Ambocoelia</u> , <u>Dictyoclostus</u> , crinoid joints	4.8
6	LS - tough, gray, with <u>Chonetes</u> , <u>Ambocoelia</u> , and other brachiopods	0.7
5	SH - gray	1.7
4	SAND - fine, clayey	0.8
3	SH - gray	1.6
2	LS - with <u>Spirifer</u> , <u>Chonetes</u> , crinoid and echinoid remains	0.1
1	SH - yellow-green to gray	3.0