

State Highway Commission of Kansas

OCTOBER 1962

MEMORANDUM TO: MR. H. O. REED, ENGINEER OF DESIGN

FROM: MR. VIRGIL A. BURGAT, CHIEF GEOLOGIST
By Paul C. Clark and Don C. Ubel, Geologists
Wallace K. Taylor, Regional Geologist

SUBJECT: Geological Report
Project 16-75 K-1165 (3) K-13, West Thru Olsburg
Pottawatomie County

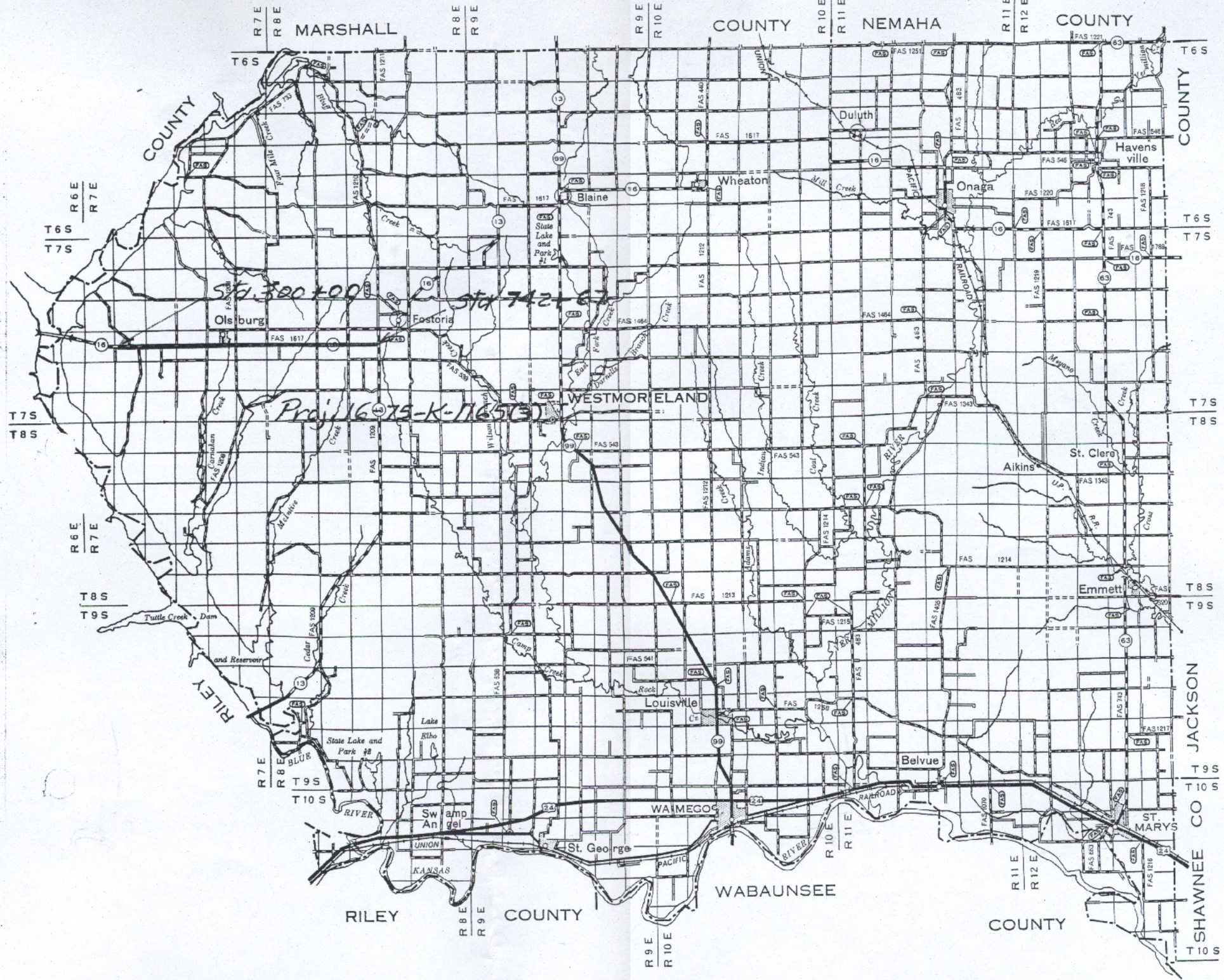
I N T R O D U C T I O N

This report presents geological information obtained by the Kansas Highway Commission through field study and is submitted for use in the design and construction of the above project with reference to the formations that occur and the engineering problems affected by the geology of the project.

The report is divided into three sections for the purpose of grouping the information and discussion of the different phases. This report is intended to be complete within itself, but is best used in connection with the Geo-Engineering Survey.

RESUME OF SECTIONS

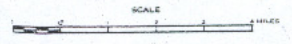
Section I	Geological Description and Formational Sequence
Section II	Geology of the Project
Section III	Geo-Engineering Aspects and Recommendations



POTTAWATOMIE COUNTY
KANSAS

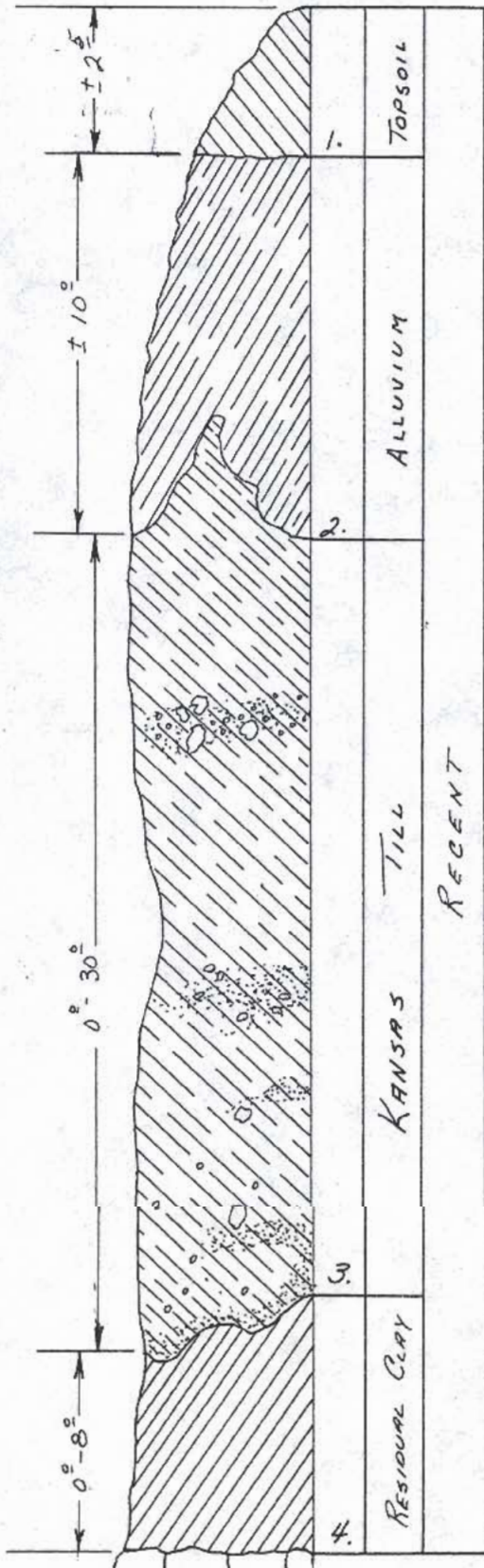


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SECTION I

Geological Description
and Formational Sequence



Recent
Topsoil

1. Clay, silty, dark gray-brown.

Alluvium

2. Clay, silty, dark gray.

Kansas Till

3. Clay, silty and sandy, brown and red-brown, sand lenses, contains pebbles and boulders locally.

Residual Clay

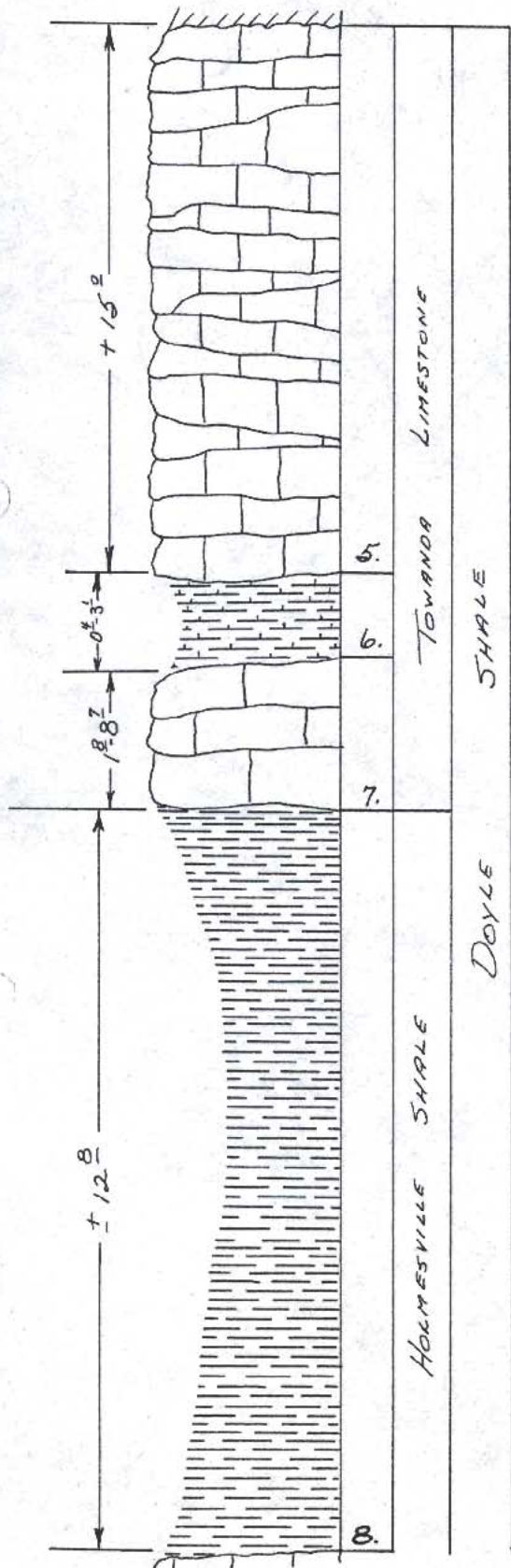
4. Clay, tan-brown, limy nodules locally.

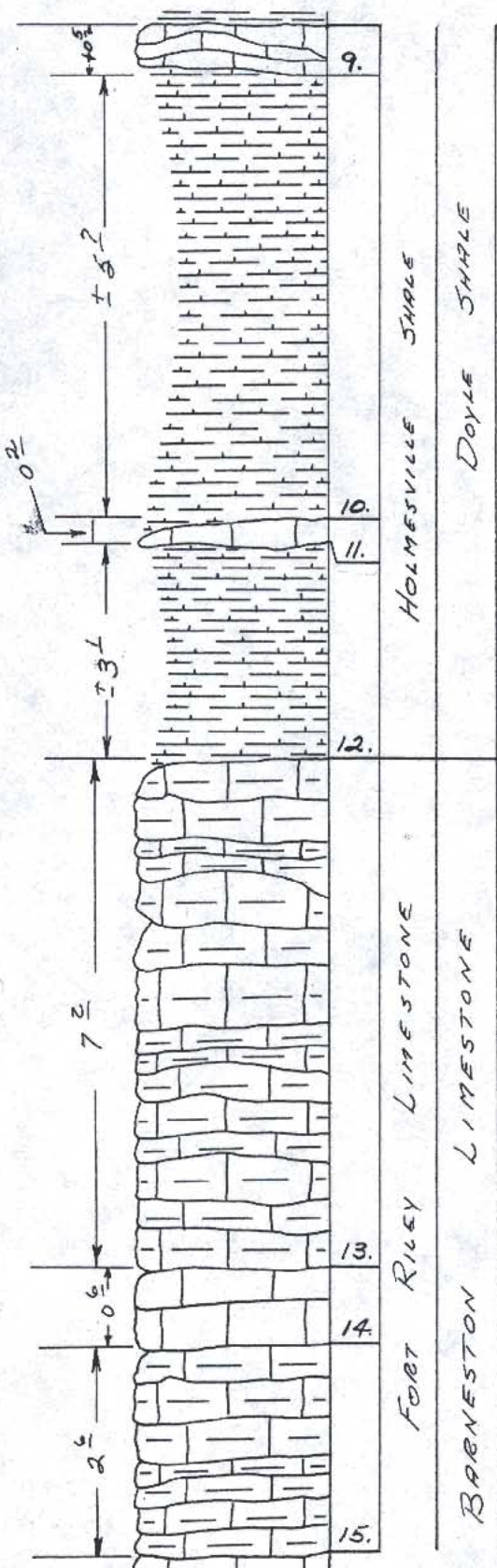
Permian System
 Wolfcampian Series
 Chase Group
 Doyle Shale
 Towanda Limestone Member

5. Limestone, light gray, platy.
6. Shale, limy, gray-brown.
7. Limestone, light gray, platy.

Holmesville Shale Member

8. Shale, green, blocky, contains a lensing maroon band.

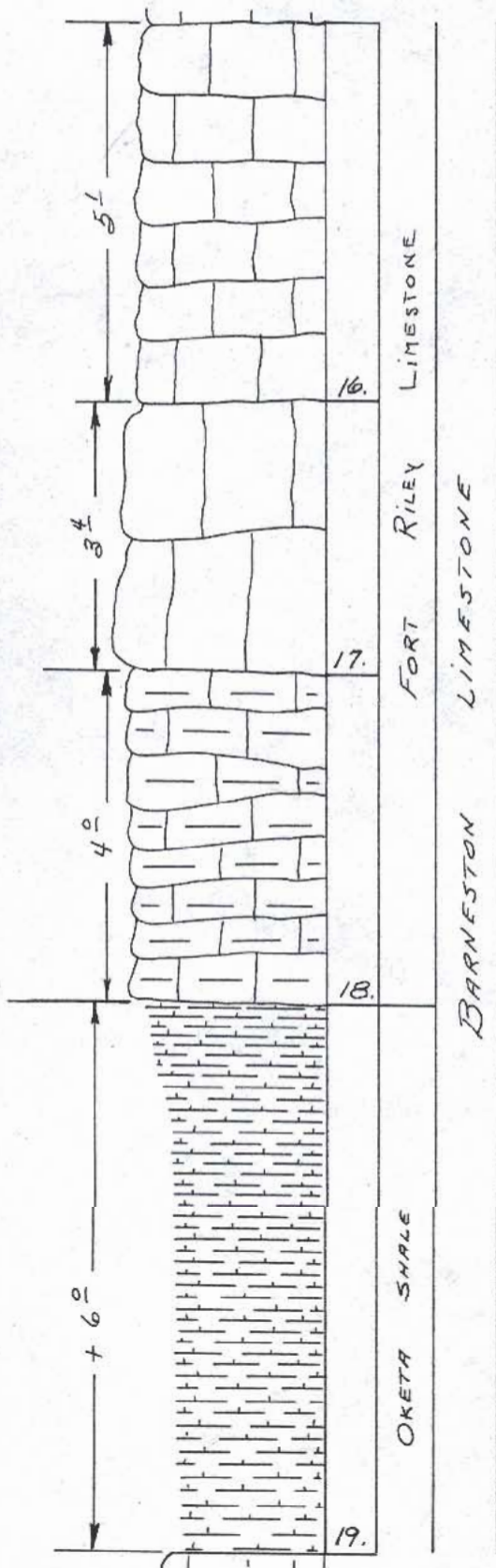




- 9. Limestone, gray, impure, cellular, lensing.
- 10. Shale, very limy, light gray, blocky.
- 11. Limestone, light gray, blocky.
- 12. Shale, light gray, limy.

Barneston Limestone
Fort Riley Limestone Member

- 13. Limestone, light gray, shaly, platy.
- 14. Limestone, light gray, blocky, dense, cellular.
- 15. Limestone, light gray, platy, shaly.



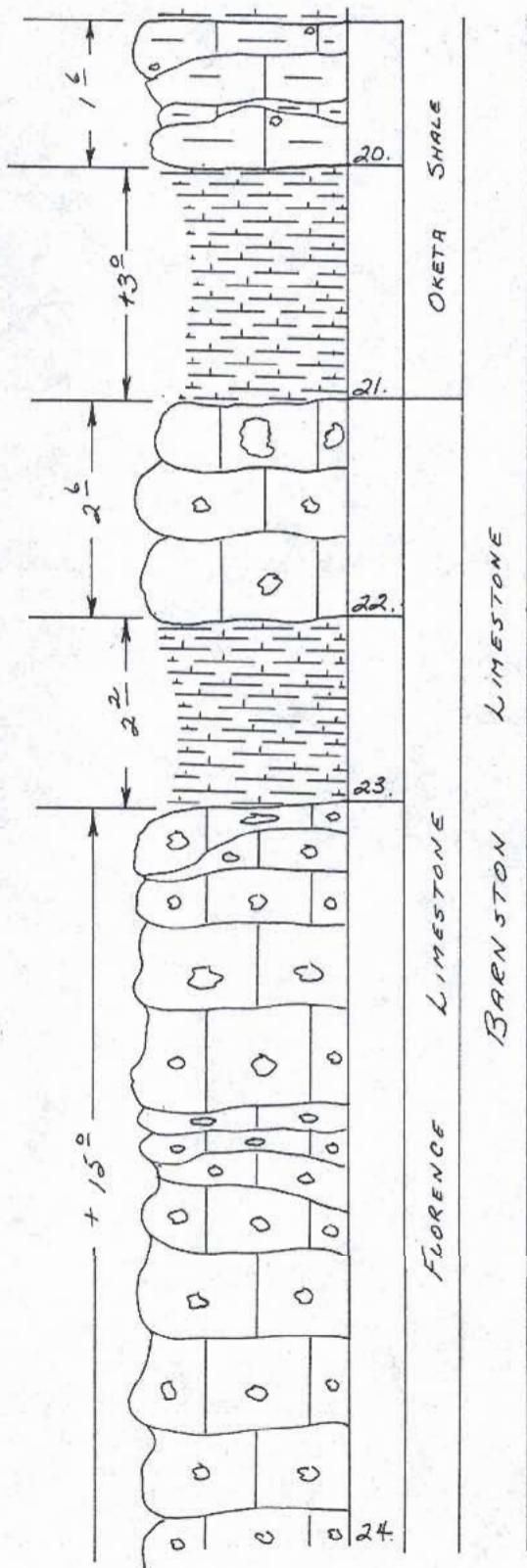
16. Limestone, light gray to buff, blocky, a variable zone, sometimes massive with no horizontal partings, but generally contains several horizontal partings.

17. Limestone, very light gray, blocky, "rimrock", varies in thickness.

18. Limestone, buff, shaly.

Oketo Shale Member

19. Shale, blue-gray, limy.



20. Limestone, gray, shaly, contains scattered chert nodules.

21. Shale, limy, blue-gray.

Florence Limestone Member

22. Limestone, blue-gray, blocky, contains chert nodules.

23. Shale, blue-gray, platy, limy.

24. Limestone, blue-gray, massive, contains chert bands.