STATE GEOLOGICAL SURVEY OF KANSAS

BULLETIN 121, PANEL 2

STRATIGRAPHY AND STRUCTURAL DEVELOPMENT OF THE SALINA BASIN AREA

by

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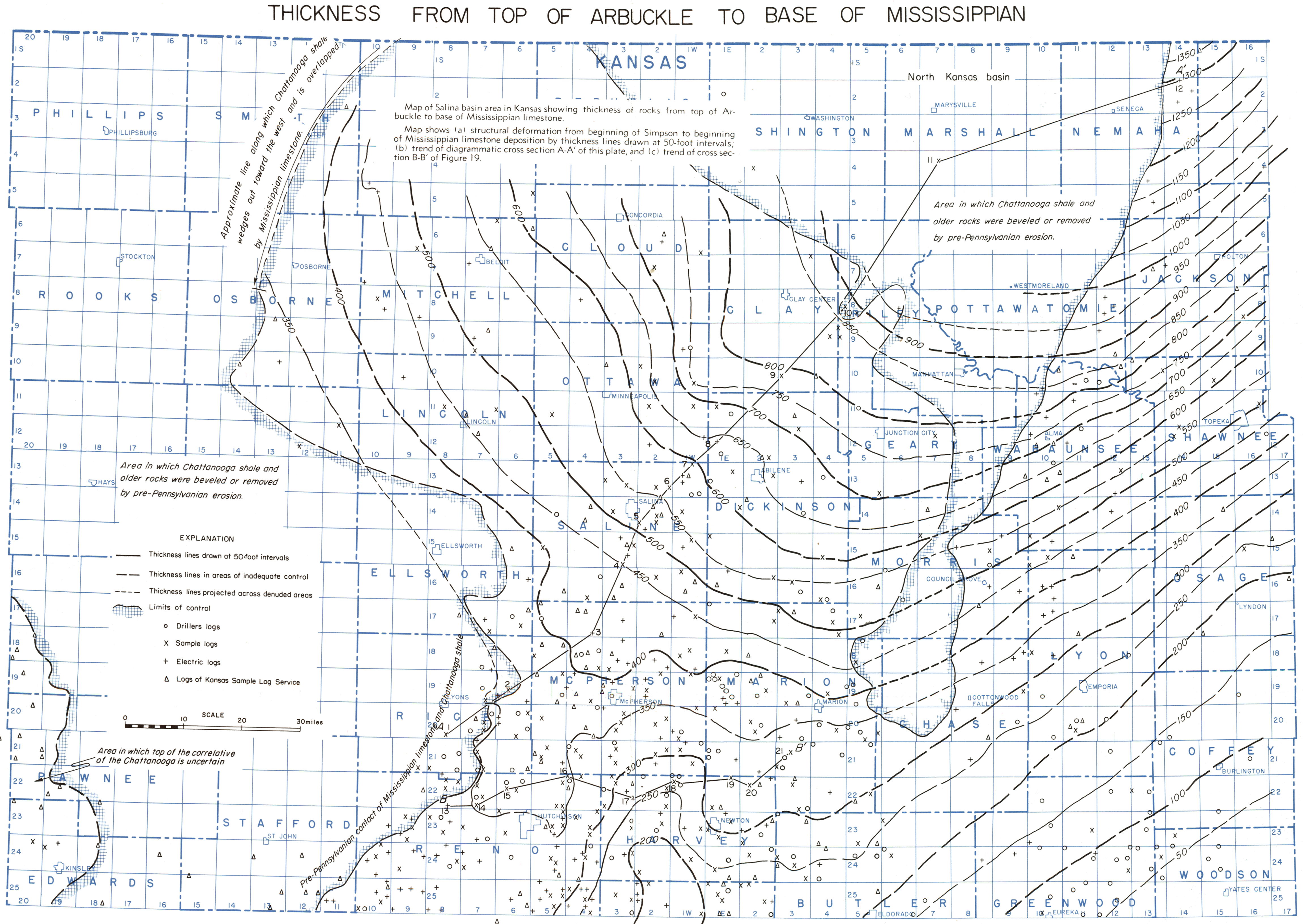
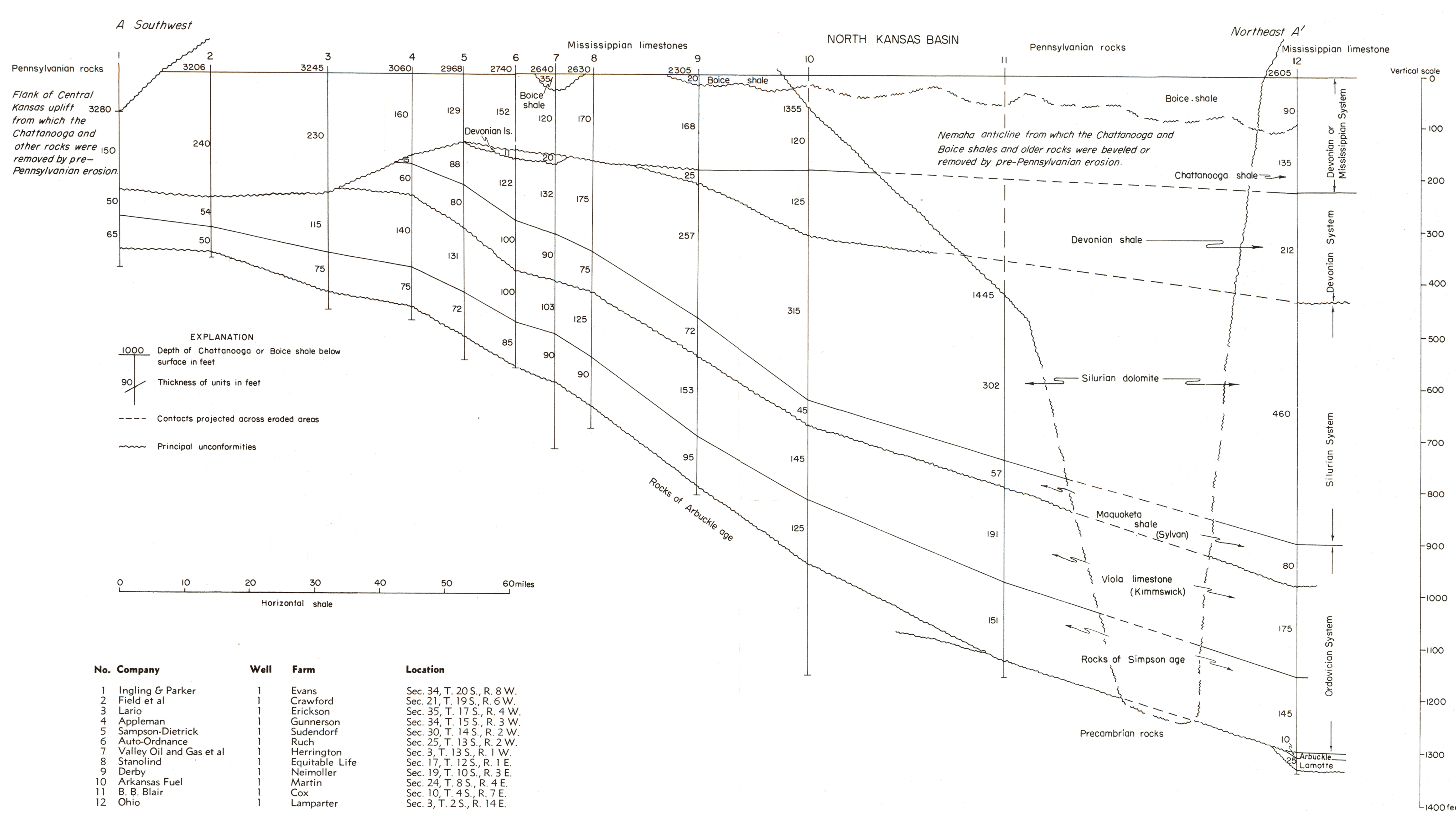
PLATE 5

THICKNESS FROM TOP OF ARBUCKLE TO BASE OF MISSISSIPPIAN



Map of Salina basin area in Kansas showing thickness of rocks from top of Arbuckle to base of Mississippian limestone.

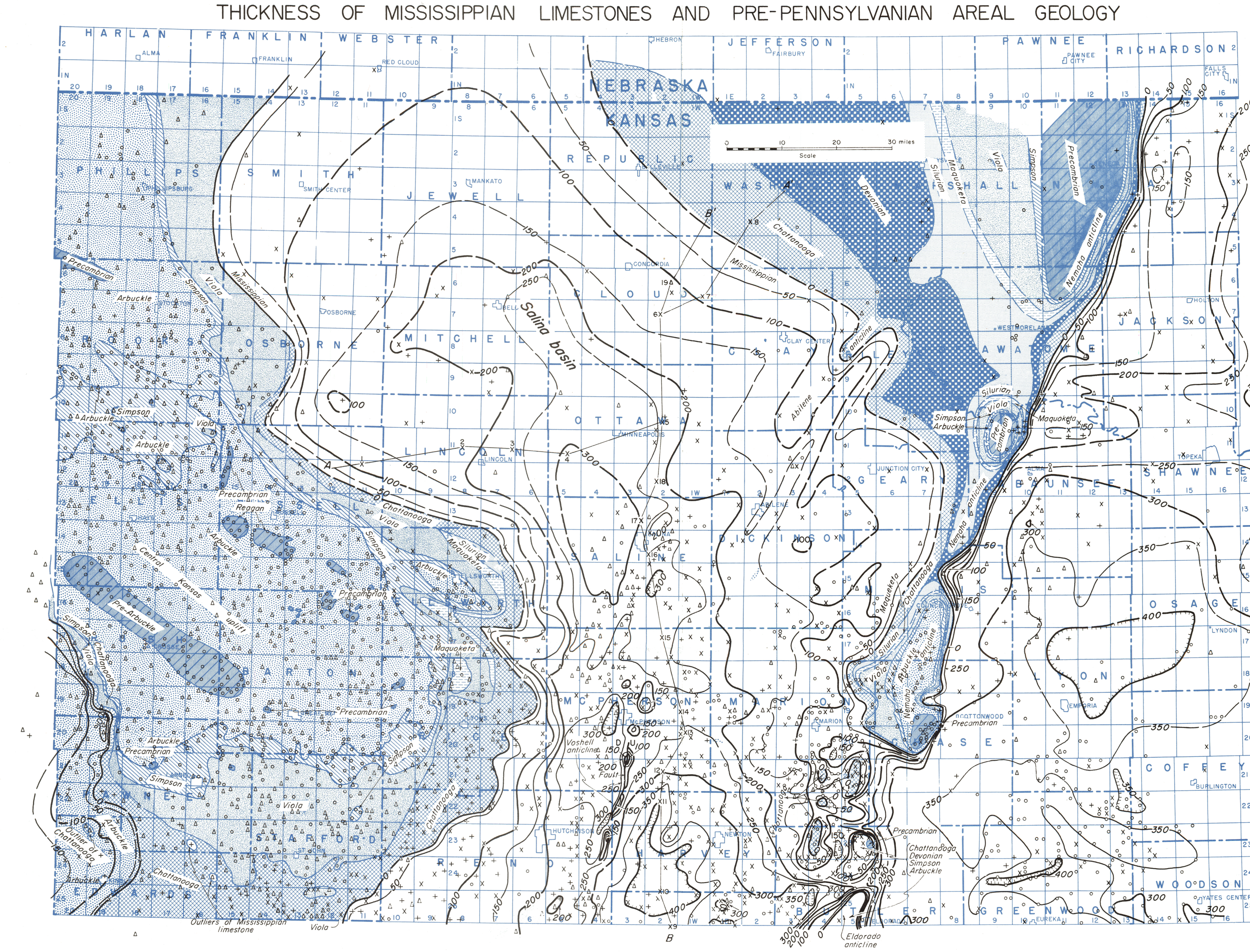
Map shows (a) structural deformation from beginning of Simpson to beginning of Mississippian limestone deposition by thickness lines drawn at 50-foot intervals; (b) trend of diagrammatic cross section A-A′ of this plate, and (c) trend of cross section B-B′ of Figure 19.



No.	Company	Well	Farm	Location
1	Ingling & Parker	1	Evans	Sec. 34, T. 20 S., R. 8 W.
2	Field et al	1	Crawford	Sec. 21, T. 19 S., R. 6 W.
3	Lario	1	Erickson	Sec. 35, T. 17 S., R. 4 W.
4	Appleman	1	Gunnerson	Sec. 34, T. 15 S., R. 3 W.
5	Sampson-Dietrick	1	Sudendorf	Sec. 30, T. 14 S., R. 2 W.
6	Auto-Ordnance	1	Ruch	Sec. 25, T. 13 S., R. 2 W.
7	Valley Oil and Gas et al	1	Herrington	Sec. 3, T. 13 S., R. 1 W.
8	Stanolind	1	Equitable Life	Sec. 17, T. 12 S., R. 1 E.
9	Derby	1	Neimoller	Sec. 19, T. 10 S., R. 3 E.
10	Arkansas Fuel	1	Martin	Sec. 24, T. 8 S., R. 4 E.
11	B. B. Blair	1	Cox	Sec. 10, T. 4 S., R. 7 E.
12	Ohio	1	Lamparter	Sec. 3, T. 2 S., R. 14 E.

PLATE 6

THICKNESS OF MISSISSIPPIAN LIMESTONES AND PRE-PENNSYLVANIAN AREAL GEOLOGY



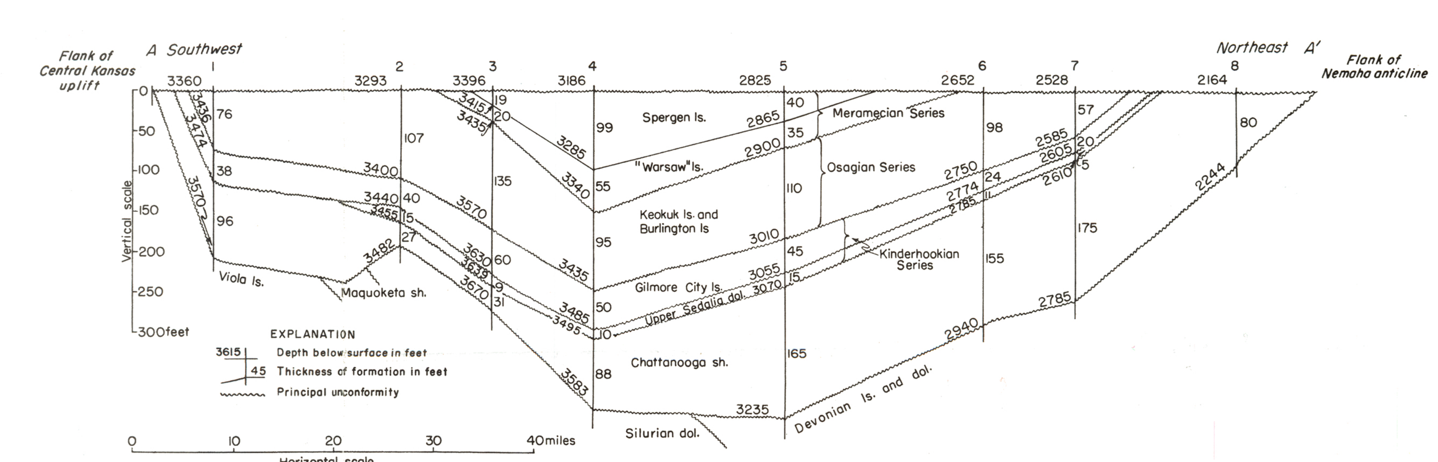
Map of Salina basin area in Kansas showing thickness of Mississippian limestones.

Map shows (a) structural deformation from first deposits of Mississippian limestone to end of post-Mississippian peneplanation; (b) pre-Pennsylvanian areal geology; (c) trend of diagrammatic cross section A-A′ of this plate, and (d) trend of diagrammatic cross section B-B′ of Figure 13.

Cross section A-A′ across Salina basin from Russell County northeast to Washington County showing distribution of Mississippian formations in Salina basin syncline, and beveled surface of Mississippian limestones. Sample logs by Leatherock (1948). All are rotary wells except cabletool wells 1 and 5.

EXPLANATION

- Thickness lines in areas of inadequate control
- Thickness lines drawn at 50 foot intervals
- Pre-Pennsylvanian exposures of Precambrian rocks and Reagan (Lamotte) sandstone
- Arbuckle dolomite
- Simpson rocks
- Viola dolomite and limestone
- Maquoketa shale
- Silurian dolomite and limestone
- Devonian limestone and dolomite
- Chattanooga shale
- o Drillers logs
- x Sample logs
- + Electric logs
- Δ Logs of Kansas Sample Log Service



No.	Company	Well	Farm	Location
1	Palmer	1	Herbel	Sec. 4, T. 12 S., R. 11 W.
2	Carter	8	Strat. Test	Sec. 21, T. 11 S., R. 8 W.
3	Dickey Oil Co.	1	Eckart	Sec. 24, T. 11 S., R. 7 W.
4	Auto-Ordnance–Darby	1	Gawith	Sec. 27, T. 11 S., R. 5 W.
5	Anderson et al	1	Ottawa State Bank	Sec. 28, T. 10 S., R. 2 W.
6	Carter	1	Strat. Test	Sec. 16, T. 7 S., R. 2 W.
7	Bells-Wells	1	Le Blanc	Sec. 35, T. 6 S., R. 1 W.
8	Phillips	1	Helms	Sec. 20, T. 4 S., R. 2 E.