COMPOSITE SECTION
OF THE
CHASE, COUNCIL GROVE, ADMIRE AND UPPER WABAUNSEE GROUPS
BELFORD AREA
WESTERN OSAGE COUNTY OKLAHOMA

HENRY C. FISHER JR. 1956 M.S. THESIS

VERTICAL SCALE
0 20
FEET

LEGEND

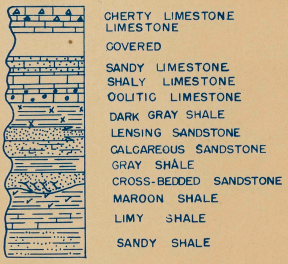
CHERTY LIMESTONE
LIMESTONE
COVERED
SANDY LIMESTONE
SHALY LIMESTONE
OOLITIC LIMESTONE
DARK GRAY SHALE
LENSING SANDSTONE
CALCAREOUS SANDSTONE
GRAY SHALE
CROSS-BEDDED SANDSTONE
MAROON SHALE
LIMY SHALE
SANDY SHALE

PLATE II

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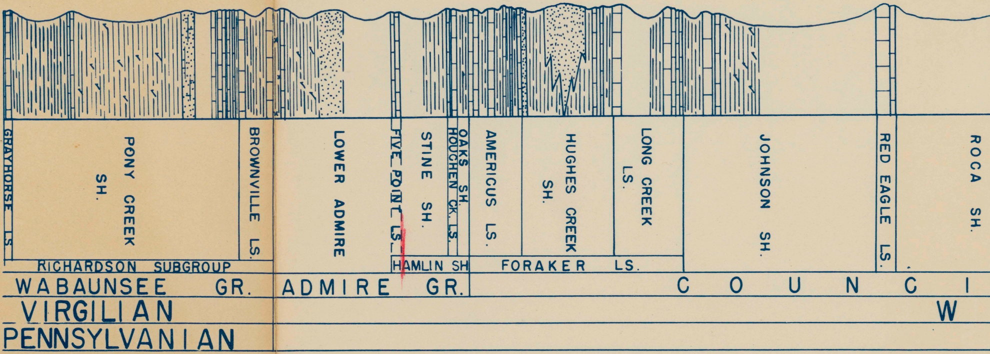
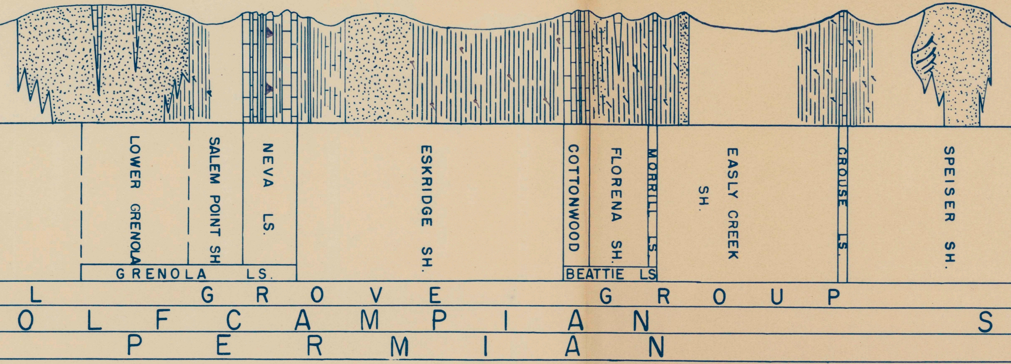
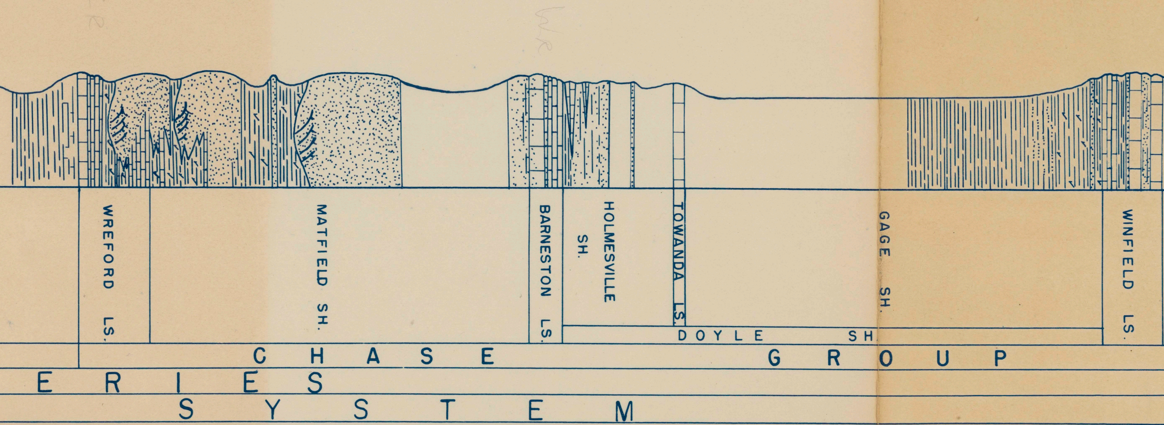
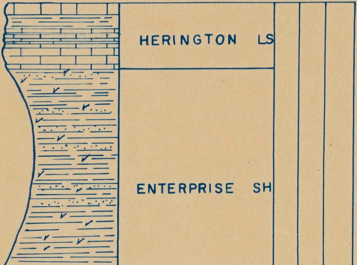
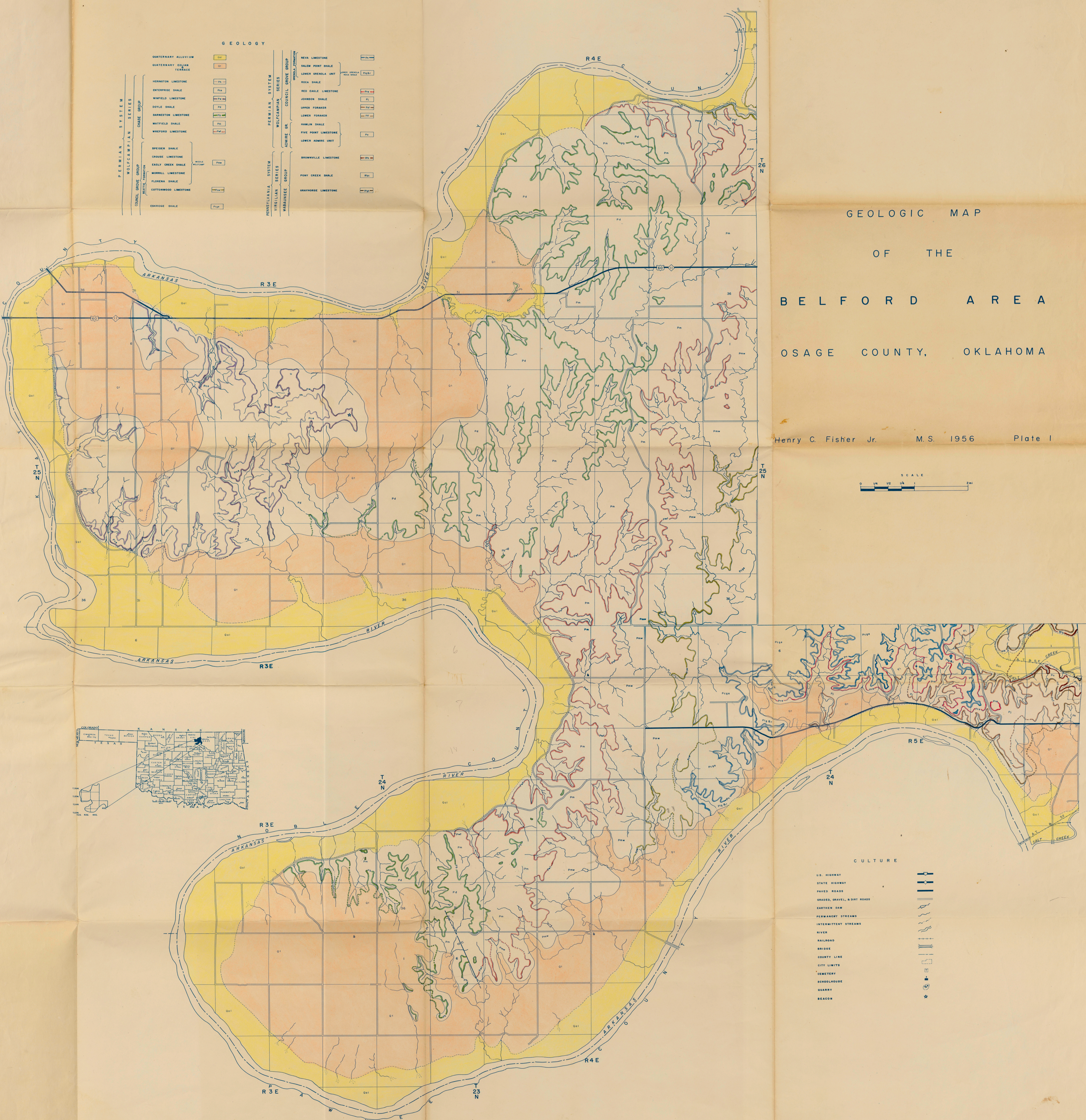

GRAYHORSE LS.
PONY CREEK SH.
BROWNVILLE LS.
LOWER ADMIRE
FIVE POINT LS.
STINE SH.
HOUCHEN CK. LS.
OAKS SH.
AMERICUS LS.
HUGHES CREEK SH.
LONG CREEK LS.
JOHNSON SH.
RED EAGLE LS.
ROCA SH.
RICHARDSON SUBGROUP
HAMLIN SH
FORAKER LS.
WABAUNSEE GR.
ADMIRE GR.
COUNCI
VIRGILIAN
W
PENNSYLVANIAN


LOWER GRENOLA
SALEM POINT SH
NEVA LS.
ESKRIDGE SH.
COTTONWOOD
FLORENA SH.
MORRILL LS.
EASLY CREEK SH.
CROUSE LS.
SPEISER SH.
GRENOLA LS.
BEATTIE LS
L GROVE GROUP
OLFCAMPIAN
S
PERMIAN


CR
WR
WREFORD LS.
MATFIELD SH.
BARNESTON LS.
HOLMESVILLE SH.
TOWANDA LS.
GAGE SH.
WINFIELD LS.
DOYLE SH.
CHASE GROUP
ERIES
SYSTEM


HERINGTON LS
ENTERPRISE SH


R4E
K A Y   C O U N T Y
R3E
ARKANSAS
RIVER
60
T 26 N
T 25 N
T 24 N
T 23 N
R5E
ARKANSAS RIVER
N O B L E   C O U N T Y
P A W N E E
ARKANSAS RIVER
SALT CREEK
Qal
Qt
Pd
Pm
Pmw
Pcge
Pj
36
31
1
6
COLORADO
KANSAS
TEXAS
MISSOURI
NEW MEXICO

GEOLOGIC MAP
OF THE
BELFORD AREA
OSAGE COUNTY, OKLAHOMA

Henry C. Fisher Jr. M.S. 1956 Plate I

SCALE

0 1/4 1/2 1/4 1 2mi

GEOLOGY

System	Series	Group	Formation	Unit		Symbol
				QUATERNARY ALLUVIUM		Qal
				QUATERNARY EOLIAN & TERRACE		Qt
PERMIAN SYSTEM	WOLFCAMPIAN SERIES	CHASE GROUP		HERINGTON LIMESTONE		Ph
				ENTERPRISE SHALE		Pce
				WINFIELD LIMESTONE		Pw
				DOYLE SHALE		Pd
				BARNESTON LIMESTONE		Pb
				MATFIELD SHALE		Pm
				WREFORD LIMESTONE		Pwf
		COUNCIL GROVE GROUP		SPEISER SHALE	MIDDLE WOLFCAMP	Pmw
				CROUSE LIMESTONE		
				EASLY CREEK SHALE		
			BEATTIE FORMATION	MORRILL LIMESTONE		
				FLORENA SHALE		
				COTTONWOOD LIMESTONE		Pcw
				ESKRIDGE SHALE		Pcge
			GRENOLA FORMATION	NEVA LIMESTONE		Pn
				SALEM POINT SHALE	LOWER GRENOLA ROCA SHALE	Plg & r
				LOWER GRENOLA UNIT		
				ROCA SHALE		
				RED EAGLE LIMESTONE		Pre
				JOHNSON SHALE		Pj
				UPPER FORAKER		Puf
				LOWER FORAKER		Plf
		ADMIRE GR.		HAMLIN SHALE		Pa
				FIVE POINT LIMESTONE		
				LOWER ADMIRE UNIT		
PENNSYLVANIA SYSTEM	VIRGILIAN SERIES	WABAUNSEE GROUP		BROWNVILLE LIMESTONE		ℙb
				PONY CREEK SHALE		ℙpc
				GRAYHORSE LIMESTONE		ℙgh

CULTURE

U.S. HIGHWAY
STATE HIGHWAY
PAVED ROADS
GRADED, GRAVEL, & DIRT ROADS
EARTHEN DAM
PERMANENT STREAMS
INTERMITTENT STREAMS
RIVER
RAILROAD
BRIDGE
COUNTY LINE
CITY LIMITS
CEMETERY
SCHOOLHOUSE
QUARRY
BEACON ☆