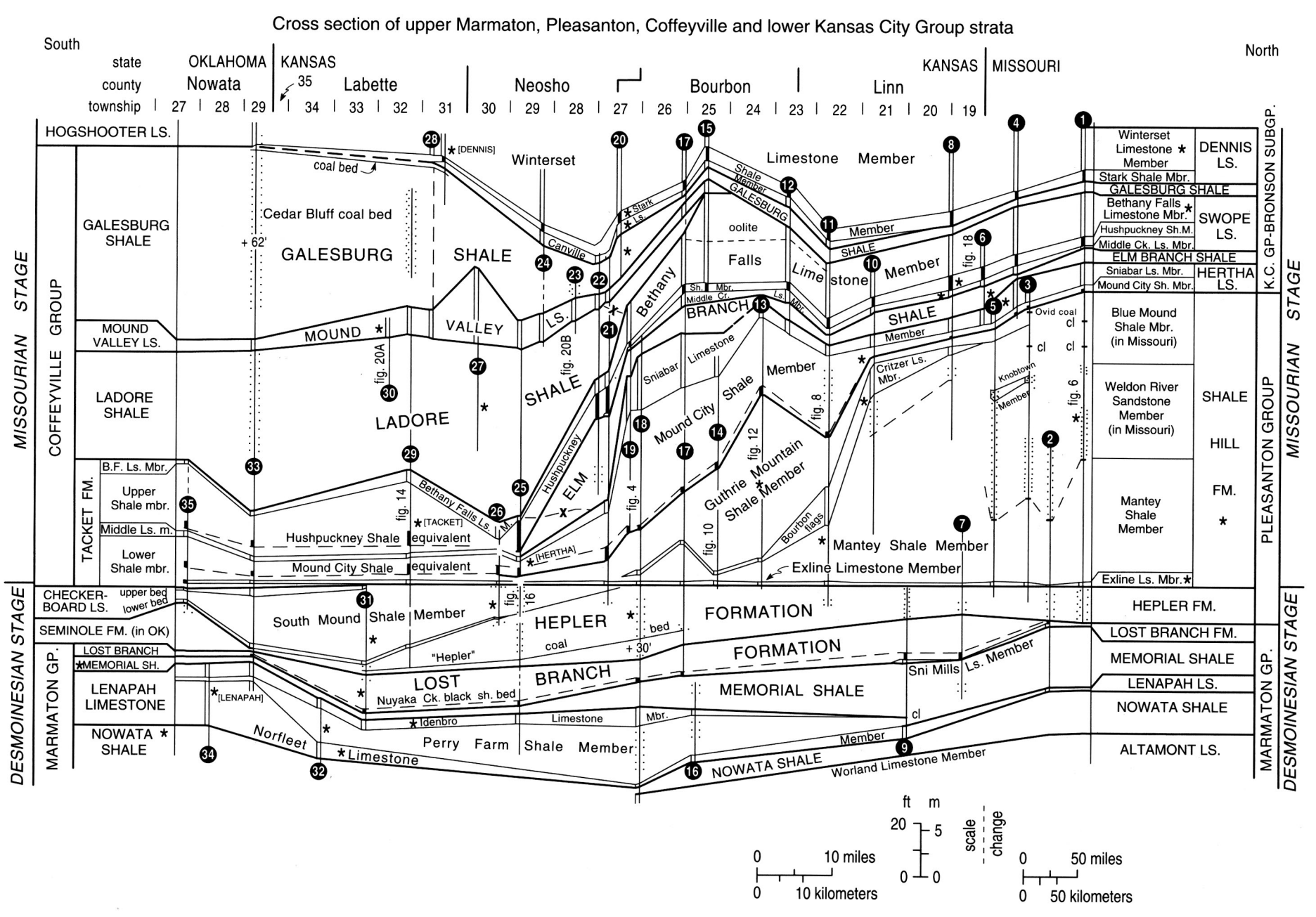
Cross section of upper Marmaton, Pleasanton, Coffeyville and lower Kansas City Group strata
South
North
state
county
township
OKLAHOMA
KANSAS
KANSAS
MISSOURI
Nowata
Labette
Neosho
Bourbon
Linn
35
27 28 29 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19
HOGSHOOTER LS.
COFFEYVILLE GROUP
MISSOURIAN STAGE
DESMOINESIAN STAGE
GALESBURG SHALE
+ 62'
Cedar Bluff coal bed
coal bed
[DENNIS]
Winterset
Canville
Stark Sh.
Shale Member
GALESBURG
Limestone Member
oolite
Falls
Lime stone Member
SHALE
MOUND VALLEY LS.
MOUND VALLEY LS.
LADORE SHALE
LADORE SHALE
fig. 20A
fig. 20B
Bethany Falls Ls.
Middle Cr. Sh. Mbr.
Ls. Mbr.
BRANCH
Sniabar Limestone Member
Mound City Shale Member
Critzer Ls. Mbr.
Ovid coal
Knobtown Ss. Member
fig. 18
fig. 8
fig. 6
fig. 14
fig. 4
fig. 12
fig. 10
fig. 16
TACKET FM.
B.F. Ls. Mbr.
Upper Shale mbr.
Middle Ls. m.
Lower Shale mbr.
[TACKET]
[HERTHA]
Hushpuckney Shale equivalent
Mound City Shale equivalent
Hushpuckney ELM
Guthrie Mountain Shale Member
Bourbon flags
Mantey Shale Member
Exline Limestone Member
CHECKER-BOARD LS.
upper bed
lower bed
SEMINOLE FM. (in OK)
South Mound Shale Member
HEPLER FORMATION
"Hepler" coal bed
+ 30'
LOST BRANCH FORMATION
MARMATON GP.
LOST BRANCH
MEMORIAL SH.
LENAPAH LIMESTONE
[LENAPAH]
Nuyaka Ck. black sh. bed
MEMORIAL SHALE
Sni Mills Ls. Member
NOWATA SHALE *
Idenbro Limestone Mbr.
Perry Farm Shale Member
Norfleet Limestone
NOWATA SHALE
Worland Limestone Member
Winterset Limestone * Member
DENNIS LS.
Stark Shale Mbr.
GALESBURG SHALE
Bethany Falls Limestone Mbr.*
SWOPE LS.
Hushpuckney Sh.M.
Middle Ck. Ls. Mbr.
ELM BRANCH SHALE
Sniabar Ls. Mbr.
Mound City Sh. Mbr.
HERTHA LS.
K.C. GP-BRONSON SUBGP.
Blue Mound Shale Mbr. (in Missouri)
Weldon River Sandstone Member (in Missouri)
Mantey Shale Member
SHALE HILL FM. *
PLEASANTON GROUP
Exline Ls. Mbr.*
HEPLER FM.
LOST BRANCH FM.
MEMORIAL SHALE
LENAPAH LS.
NOWATA SHALE
ALTAMONT LS.
MARMATON GP.
ft m
20 5
0 0
scale change
0 10 miles
0 10 kilometers
0 50 miles
0 50 kilometers