

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Graphic lithologic logs of four U.S. Geological Survey cores
of Carboniferous rocks, Lawrence County, Kentucky

By

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1975

This report is preliminary and has not
been edited or reviewed for conformity
with U.S. Geological Survey standards
and nomenclature.

GRAPHIC LITHOLOGIC LOGS OF FOUR U.S. GEOLOGICAL SURVEY
CORES OF CARBONIFEROUS ROCKS, LAWRENCE COUNTY,
KENTUCKY

By

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The four cores described here were drilled for the
U.S. Geological Survey by the U.S. Army Corps of
Engineers in Lawrence County, northeastern Kentucky,
in the spring of 1975 as part of a mapping project.

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Abbreviations

abund	abundant	mic	micaceous
amt	amount	nod	nodule
av	average	occas	occasional
bioturb	bioturbated	olv	olive
blu	blue	peb	pebble
brn	brown	pl	plant
burr	burrowed	purp	purple
c	coarse	root	rooted
calc	calcareous	rip	rippled
carb	carbonaceous	scat	scattered
cl	clay (grain size)	sdv	sandy
concr	concretion	sh	shale (grain size + structure)
dk	dark	shy	shaly
f	fine	sid	sideritic
Fe-stone	ironstone	sls	siltstone
fossilif	fossiliferous	slty	silty
frags	fragments	sm	small
gry	gray	ss	sandstone
gryish	grayish	strks	streaks
homog	homogeneous	TD	Total depth (in feet)
irreg	irregular	v	very
lam	laminated	vf	very fine
lams	laminations	w	with
ls	limestone	weath	weathered
lt	light	x-lam	cross laminated
m	medium	x-lams	cross laminations
		yel	yellow

Lithologic Symbols



conglomerate



carbonaceous shale



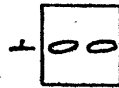
sandstone



limestone



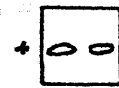
sandstone with coal streaks



limestone concretion



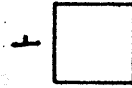
siltstone



ironstone concretion



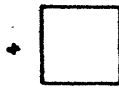
burrowed siltstone



calcareous rock



shale



sideritic spherules in rock



burrowed shale



rooted



silty shale



coarsens upward



burrowed silty shale



fines upward

Log K-1-75

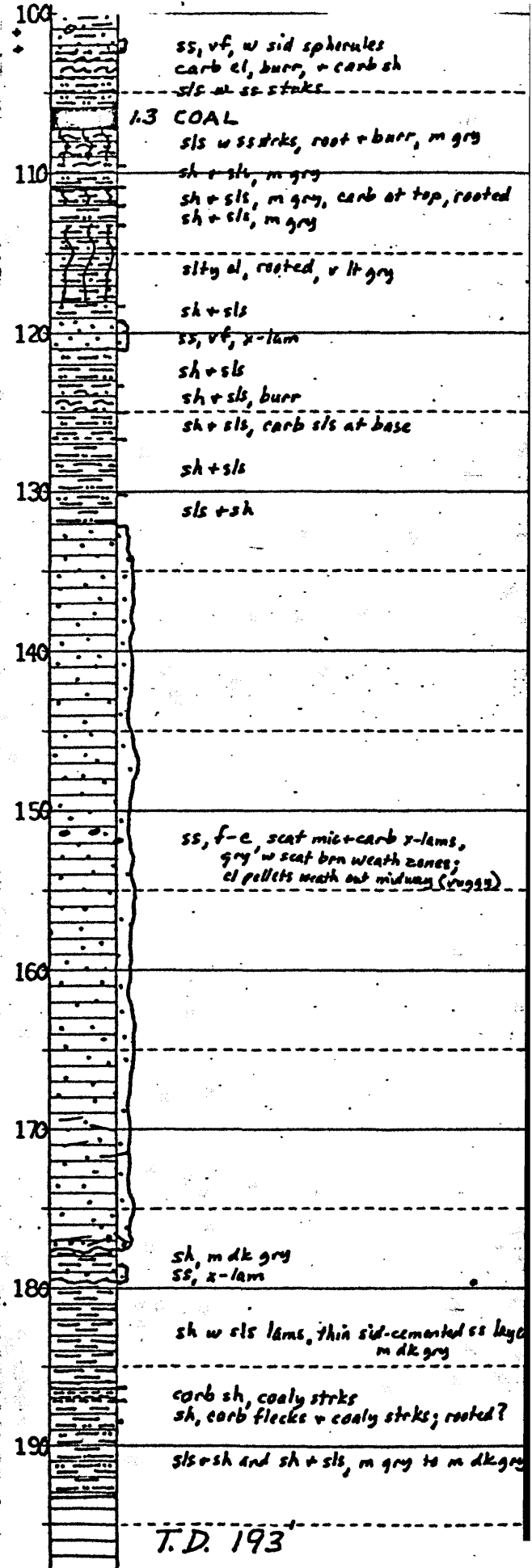
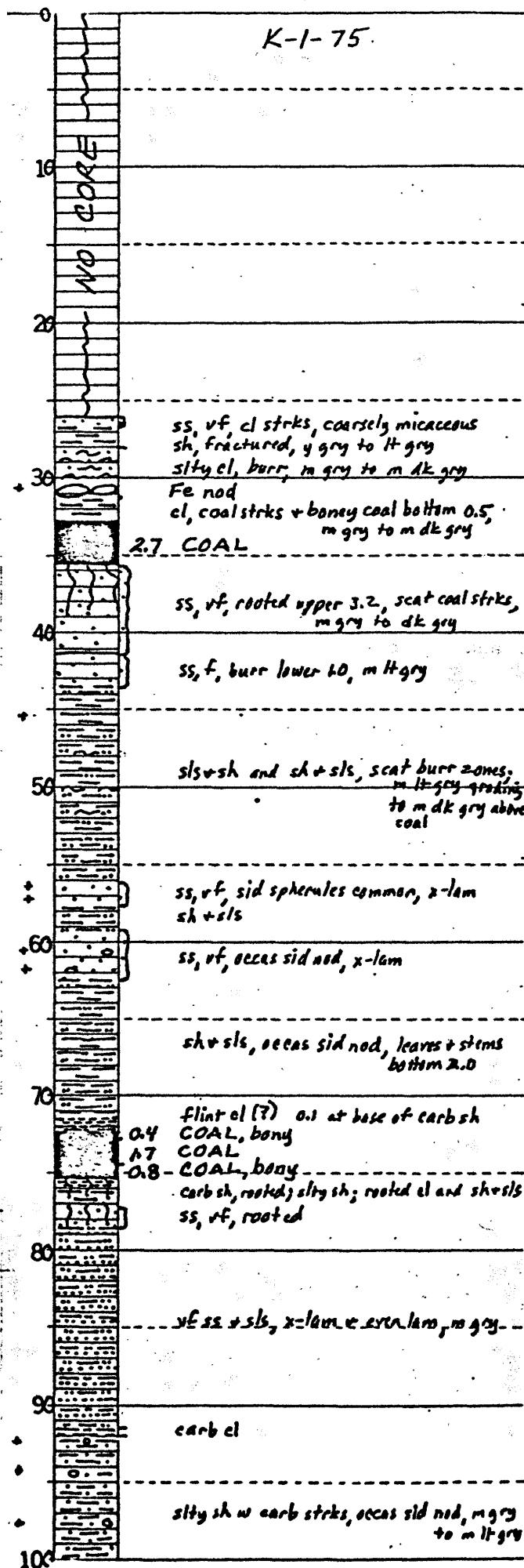
Location: Louisa quadrangle, Lawrence County, Kentucky,
north of radio tower on ridge east of Threemile
Creek. Latitude 38°02'54" N., Longitude 82°34'39" W.

Surface altitude: 1,130 feet

Total depth: 193 feet

Geologic age: Begins and ends in Middle Pennsylvanian Breathitt
Formation

Log follows



Log K-2-75

Location: Adams quadrangle, Lawrence County, Kentucky,
on ridge about 1 mile north of Busseyville.
Latitude 38°05'10" N., Longitude 82°40'56" W.

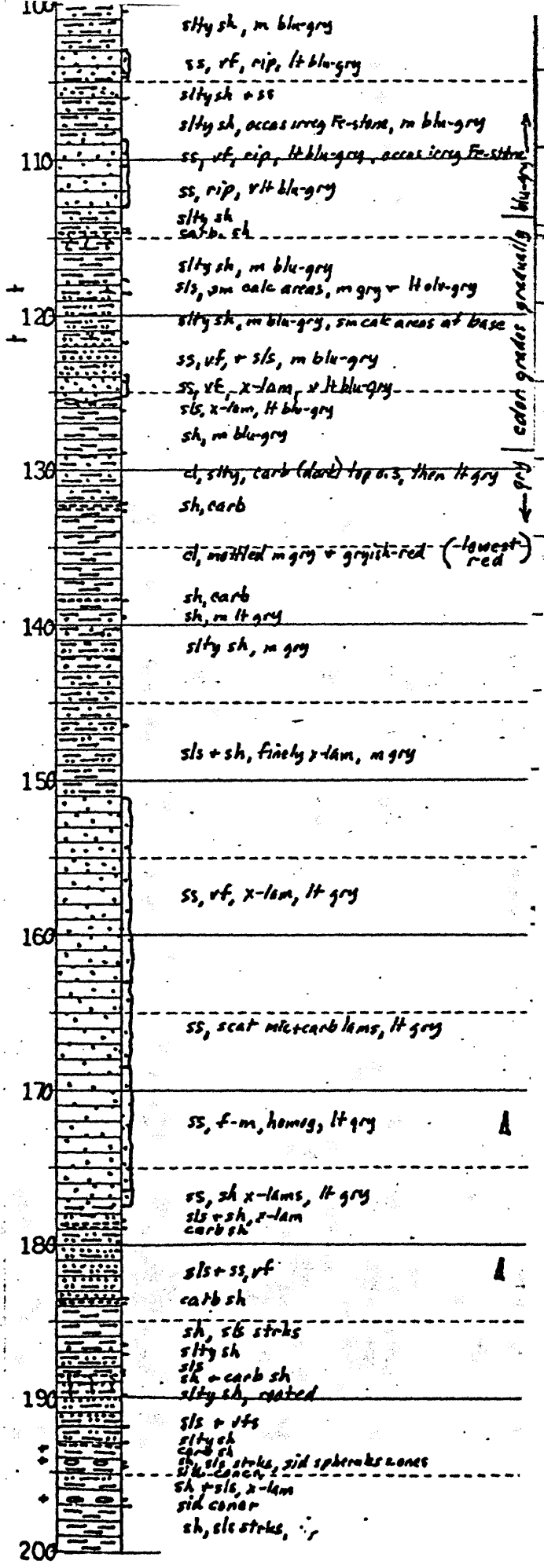
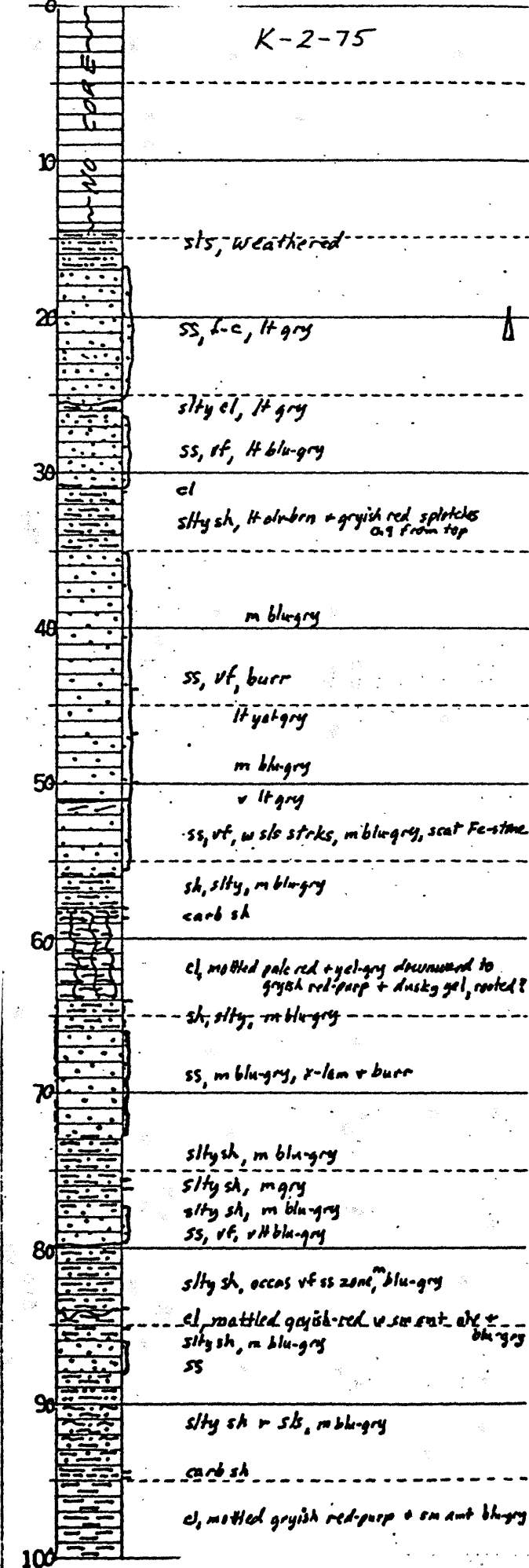
Surface altitude: 873 feet

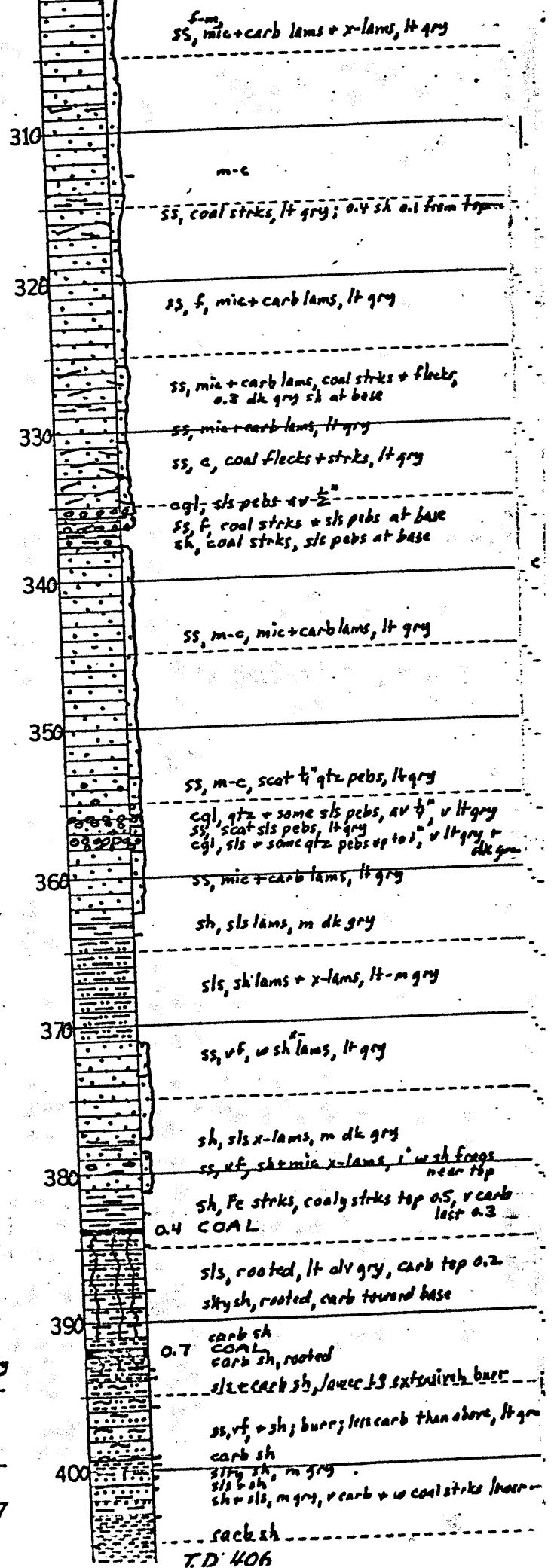
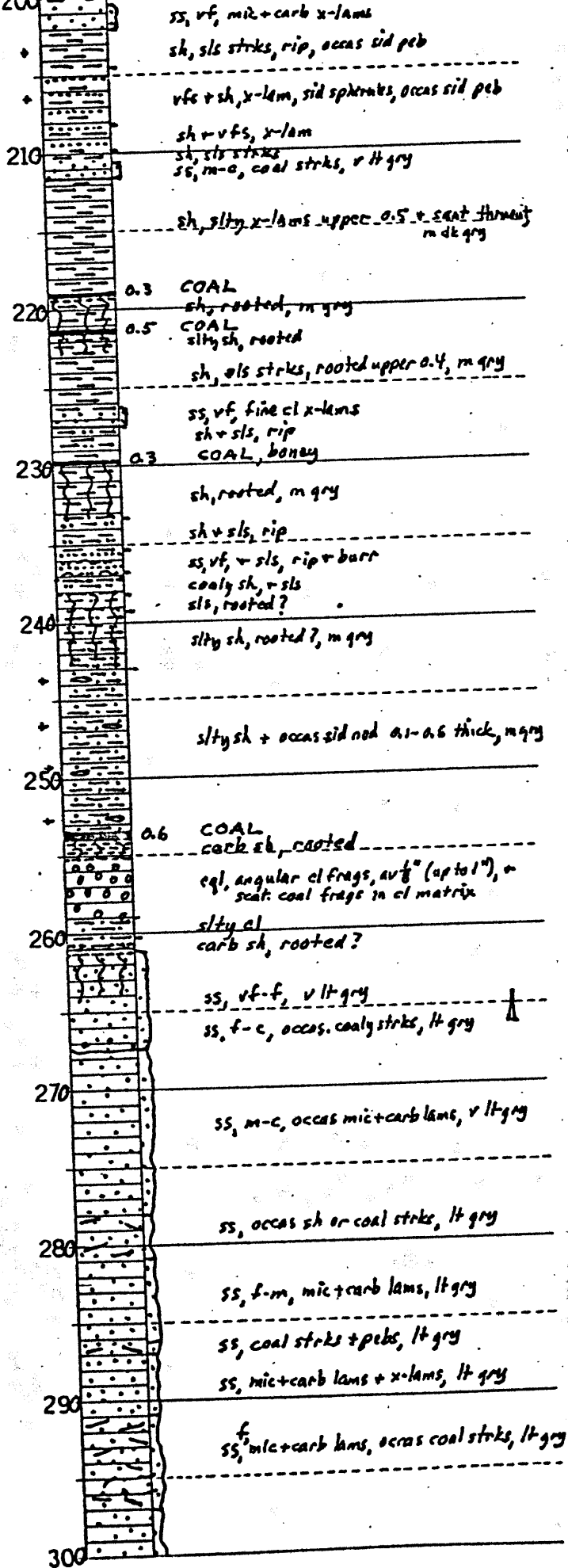
Total depth: 406 feet

Geologic age: Begins in Upper Pennsylvanian Conemaugh Formation,
ends in Middle Pennsylvanian Breathitt Formation

Log follows

K-2-75





Log K-3-75

Location: Blaine quadrangle, Lawrence County, Kentucky,
just north of Blaine Creek, between Daniels
Creek and Muddy Branch. Latitude 38°05'17" N.,
Longitude 82°45'53" W.

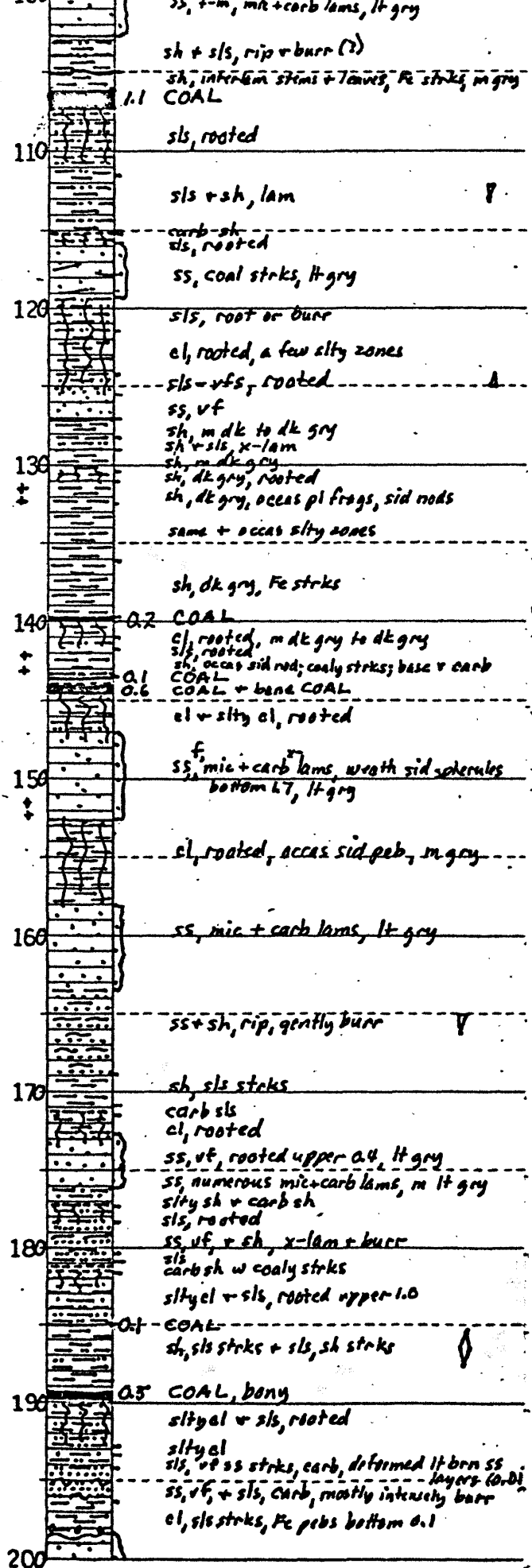
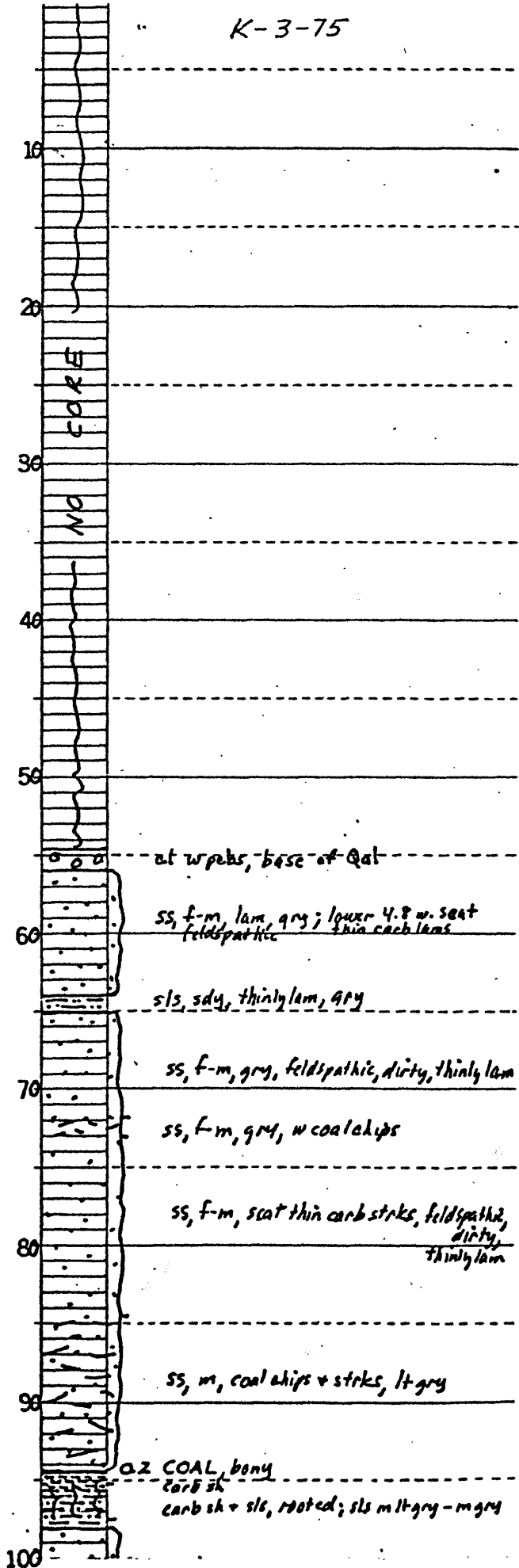
Surface altitude: 620 feet

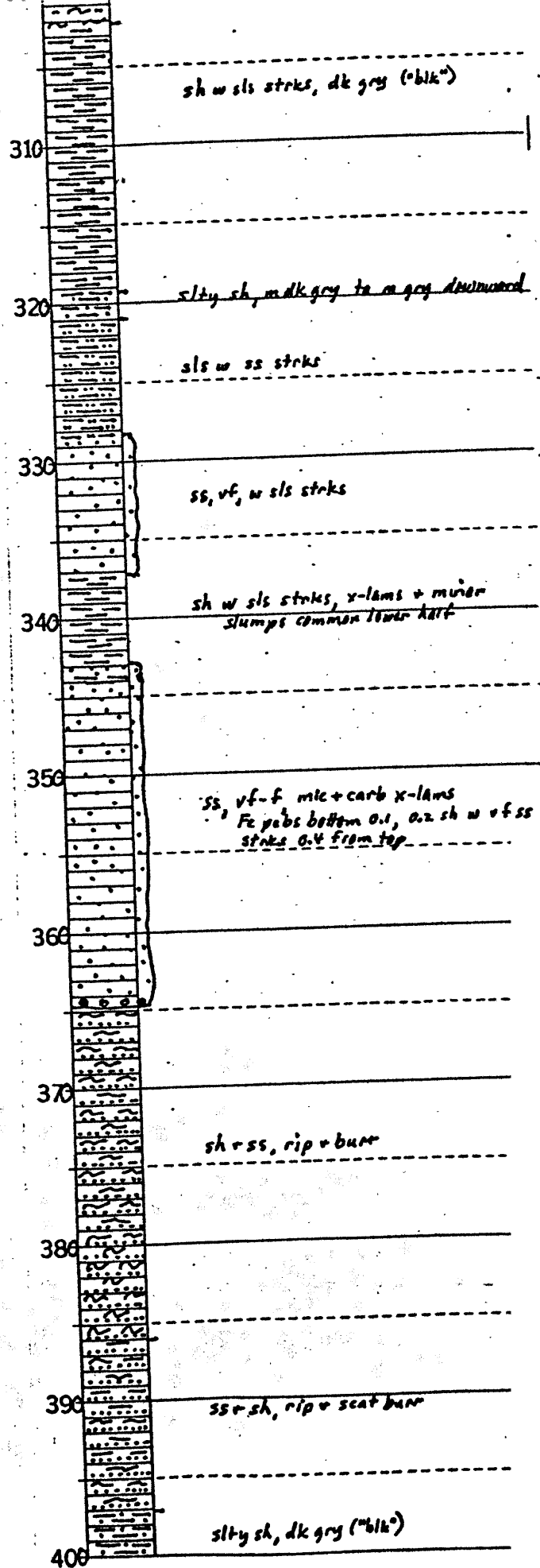
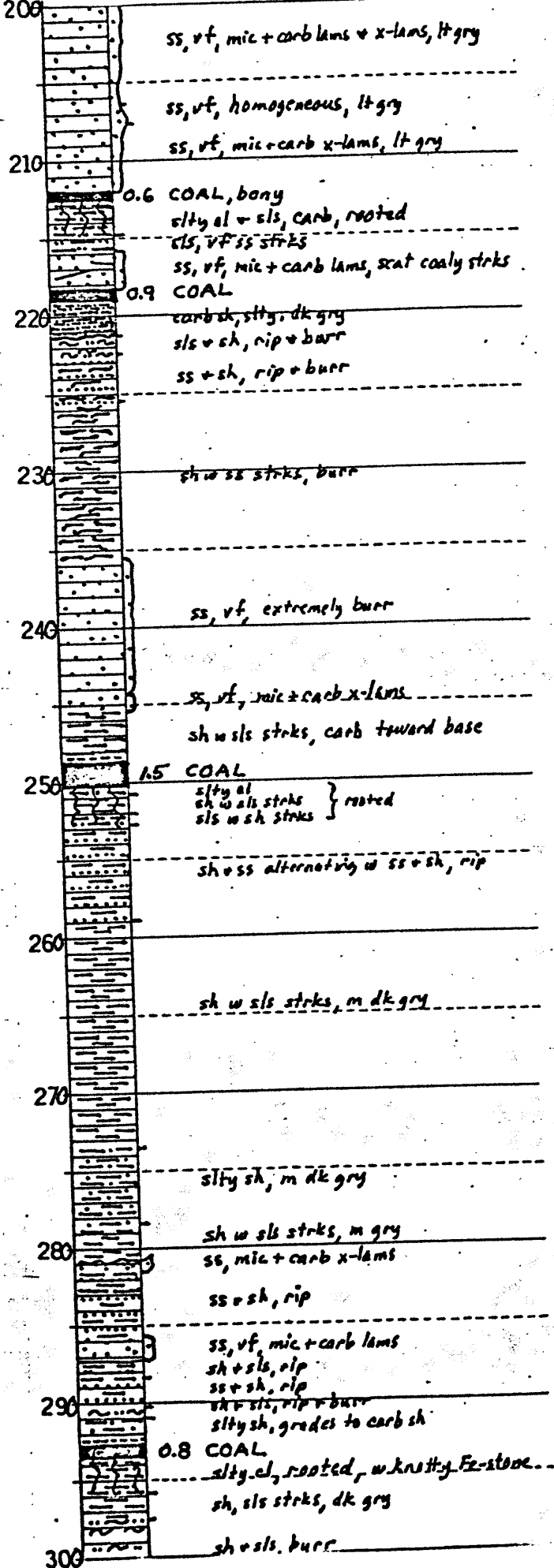
Total depth: 720 feet

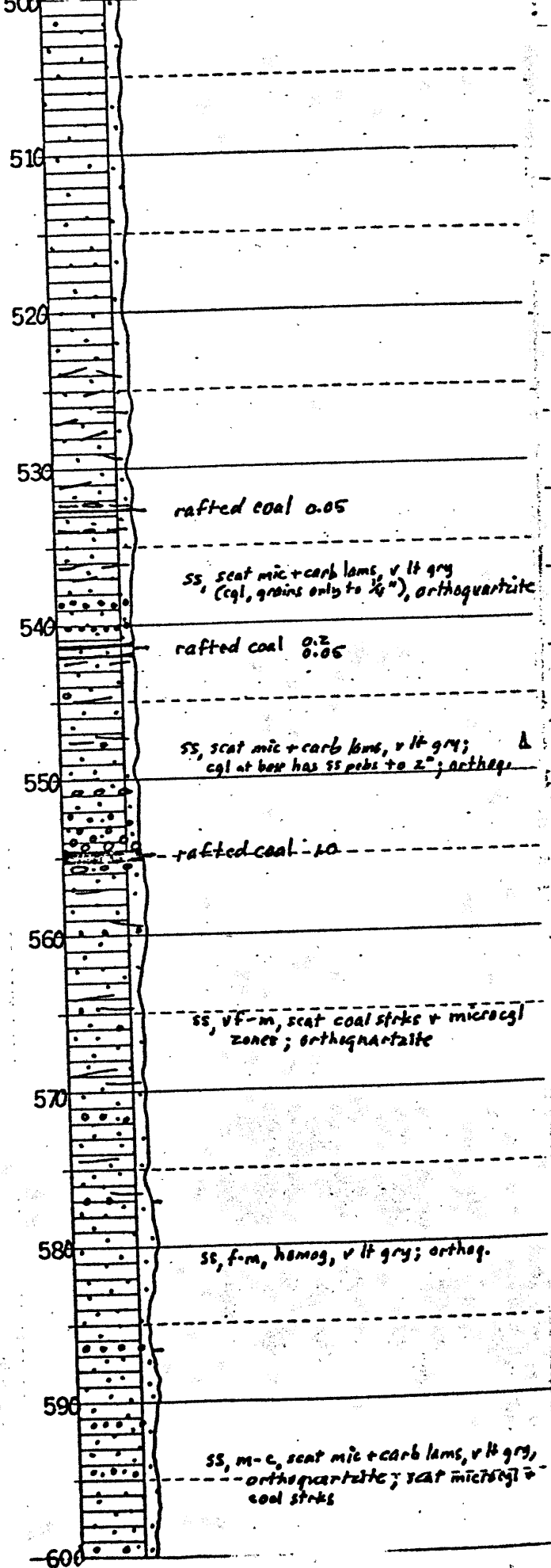
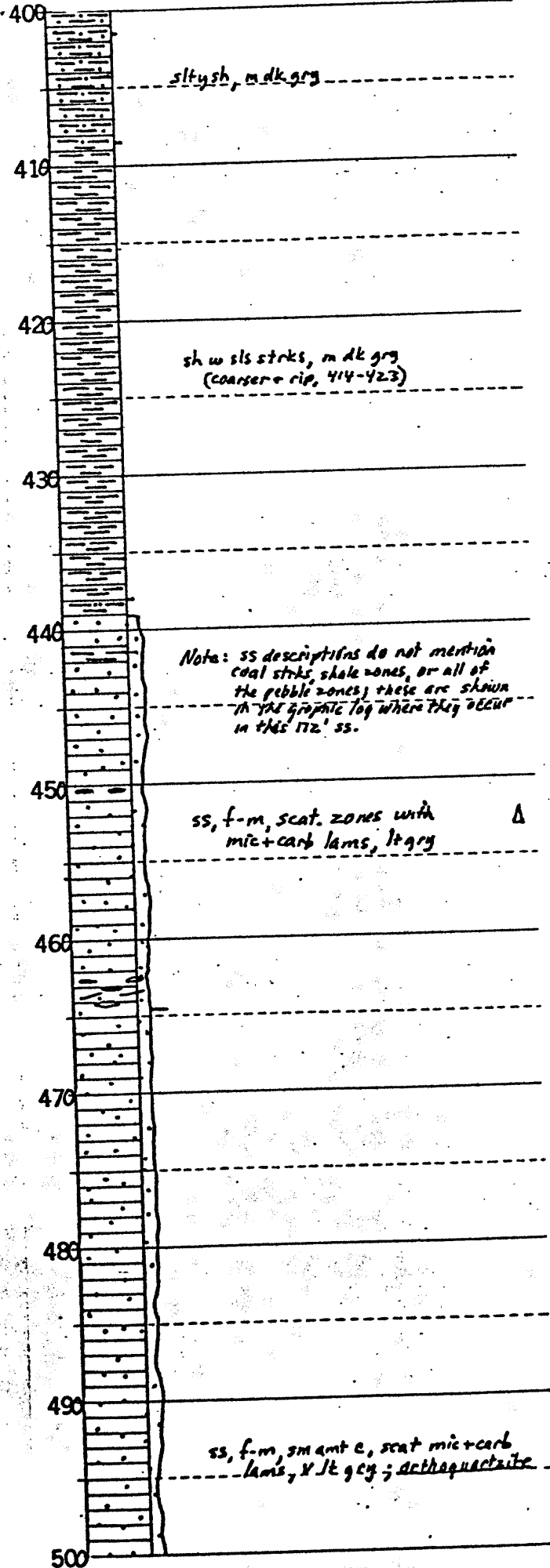
Geologic age: Begins in Middle Pennsylvanian Breathitt Formation,
ends in Mississippian Newman Limestone

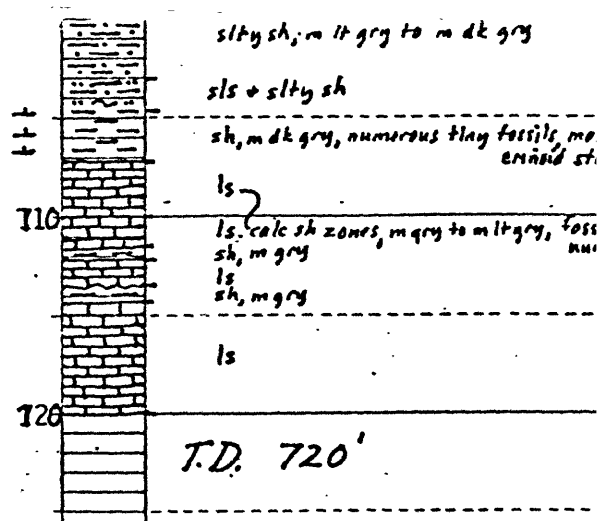
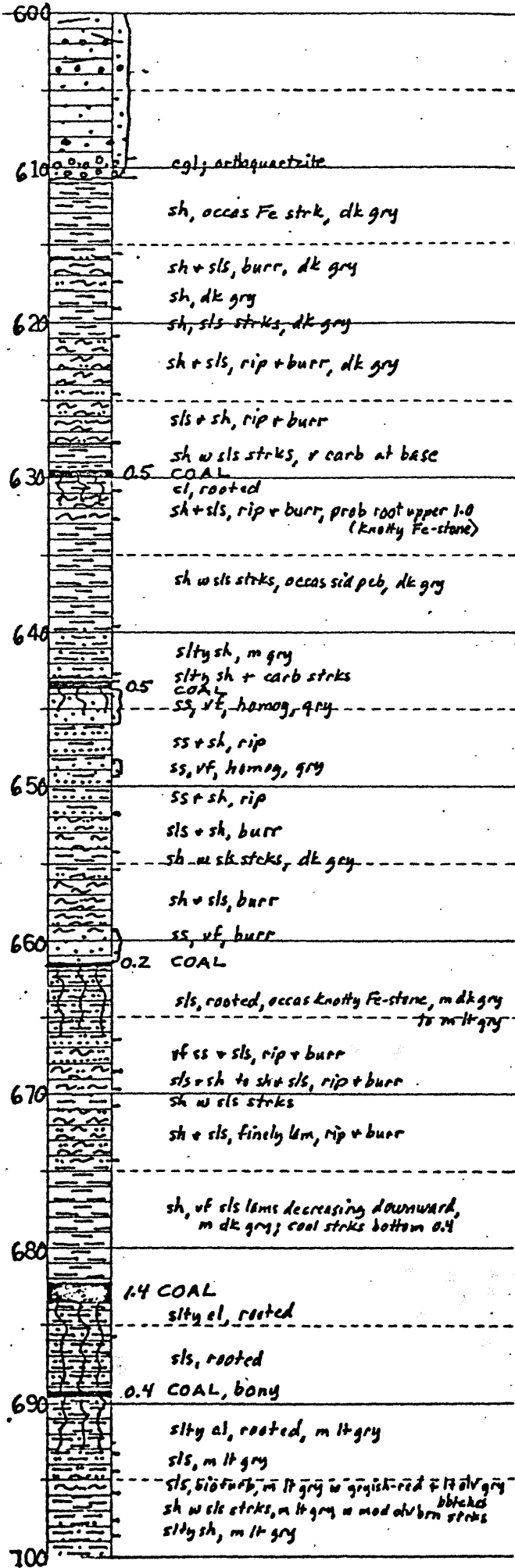
Log follows

K-3-75









Log K-4-75

Location: Blaine quadrangle, Lawrence County, Kentucky,
on divide between Rockhouse Branch of Brushy Creek
and Trace Branch of Right Fork Little Blaine Creek.
Latitude 38°00'56" N., Longitude 82°46'11" W.

Surface altitude: 1,106 feet

Total depth: 294 feet

Geologic age: Begins and ends in Middle Pennsylvanian Breathitt
Formation

Log follows

K-4-75

