

#12

Mt. Judean

UNITED STATES
DEPARTMENT OF THE INTERIOR

DI-6

APPROVED DECEMBER 1941

Logs

1. Mt. Hersey - Everton ✓
2. Short section ✓
3. Smith Mt. ✓
4. Mt. Smith ✓
5. Buffalo River Terrace
6. Roberts Farm ✓
7. Lower Batesville section ✓ - No samples
8. Moore section - M.B. ✓
- 9.

Mt Hersey Section

2-13-52

Ordovician Section on Buffalo
River, Newton County Arkansas
SW 1/4 Sec 27, T16N R19W

Base of section is 15 feet above
River level. Units from base upward

SA-1 Gray to dark gray finely crystalline 2'6"
thin to medium bedded dolomite

SA-2 Thick bedded, gray, fine to medium crystalline 4'3"
dolomite with scattered sand grains
in upper 6 inches.

SA-3 Medium bedded, gray, finely 3'6"
crystalline dolomite. A 8 inch bed,
8" from base has scattered sand
grains

SA-4 Medium bedded, gray fine to medium 4'-
crystalline dolomite. Lower 3" quartzitic
sand. Above this 6" dol with scattered
sand

SA-5 Medium bedded, dark gray, fine to 3'7"
medium crystalline dolomite

Mt Hensley Section, 2-13-52

- SA-6 Medium bedded, white to brown, 6'6"
dolomitic sandstone, with fine to
medium sand grains. Is slight fizz
dolomite or secondary? Covered with
secondary calcite. Appears to be slightly
dolomitic at base and quartzitic (?) above.
- Covered interval 2'-
Thin to
- SA-7 Medium bedded, medium gray 4'4"
finely crystalline dolomite. Very
sandy dolomite in upper 1 ft 6 in.
- SA-8 Medium to thick bedded, gray 4'4"
finely to medium crystalline
dolomite. Has some thin wavy banding
due to variations in color.
- SA-9 Thin to medium, gray, fine to medium 1'11"
crystalline dolomite
- SA-10 Thin to medium bedded, gray (light 2'-
gray banded) slightly calcareous
dolomite

Mt. Hershey Section 2-13-52

- SA-11 Thin bedded light gray fine to medium crystalline dolomite. 3'7"
Lower 6" and upper 1" appears cherty. Dolites in upper 1"?
- SA-12 Medium bedded light gray, dolitic? 4'1"
oolitic chert. Has some gray, fine to medium crystalline dolomite. Both chert and dolomite are interbedded in such a manner that the areal extent of each irregular bed is limited - Chert zone traces as good bed 100' along outcrop
- SA-13 Thin to medium bedded, gray, 4'
fine to medium grained dolomite. A 6" cherty bed in middle of unit
- SA-14 Very thin to medium bedded, gray 4'6"
fine to medium grained dolomite. Scattered sand in lower 6"; no sand in next 6"; 2 1/2' sandy dolomite. Top 1' has no sand

Mt Hervey Section 2-13-52

- SA-15 Medium bedded in lower 1', remainder 4' 11"
thin bedded; gray, fine to
medium crystalline dolomite.
Upper 1" is a dolomitic
sandstone which is light gray.
- SA-16 Thin to medium bedded rocks from 5' 3"
bottom up.
6" fine to med. crystalline dolomite
6" fine to med. xlln, sh. calcareous, light
gray, dolomite
2' 9" Slightly sandy fine to medium
crystalline dolomite
1' 6" white to light gray, dolitic(?)
quartzitic fine grained sandstone
- SA-17 Thin to medium bedded 5'-
light gray, fine to medium
crystalline dolomite. Scattered
sand in lower 3 inches, three
inches milky white, chert without
good conoidal fracture. Looks
like tripolitic chert but not porous.
Few scattered sand grains in dolomite
of upper 1/2 of unit

Mt Hersey Section 2-13-52

SA-18 Thin to medium bedded, gray 4' 8"
fine to medium crystalline
dolomite. Slightly sandy in lower 6"
and a 6" slightly calcareous zone
1 foot from base. 1' from top is
6" bed of dolomite with scattered
sand grains. Top 1' dolomitic (?) quartzitic
fine to medium grained, light gray
sandstone.

SA-19 Medium bedded rocks 2' 2"
Lower 6" lt. grayish-brown fine
grained, dolomitic sandstone
Remainder grayish-brown fine to
medium crystalline dolomite with
scattered sand grains

2-14-52 - 820

SA-20 Very thin-to medium-bedded dolomite 1' 2"
Light gray to yellowish-gray
fine to medium-crystalline
dolomite. Bedding has a
very wavy appearance with
silt and very fine sand
between bedding planes.
Appears to be cryptozoan
structure.

Mt Hersey Section - 2-14-52

SA-21 Thin to medium bedded Dolomite 4' 3"
Medium-gray to yellowish-gray
fine to medium-crystalline
dolomite. A few scattered sand
grains throughout; slightly more
sand (still floating) in the
lower 1' & upper 3". Figured with
dark olive-gray dolomite lines.

SA-22 Thin-bedded sandstone 1' 2"
Olive-gray to light-gray and
yellowish-gray, medium-grained
sandstone; quartzitic except
upper 2" which is dolomitic.

SA-23 Thin to medium-bedded dolomite 4' 4"
Light-gray to yellowish-gray,
fine to medium-crystalline
dolomite with scattered sand
grains; more sand in the lower
2"-3"

SA-24 Platy to thin-bedded 3' 11"
Yellowish-gray to medium-gray
dense, fine and medium-crystalline
dolomite with scattered medium
sand grains. Thin-banded with
lighter and darker dolomite.
8" from base is a 5" band of sandy
dolomite or dolomitic sandstone - quartzitic

Mt. Hersey Section - 2-14-57

- SA-25 Medium to thick-bedded dolomite 1'5"
very light gray to olive-gray
sandy dolomite with irregular
stringers of dolomitic sandstone
- SA-26 Medium to thick-bedded dolomite 4'8"
Medium gray to light gray & light
olive gray fine to medium crystalline
dolomite with scattered sand
grains. Banded with light and
dark dolomite. 6" band of very
sandy dolomite 1'8" below the
top.
- SA-27 Very thin to medium-bedded dolomite 3'7"
Medium-gray, light-olive-gray to
yellowish-gray, fine to medium
crystalline dolomite with
scattered sand in lower 1'
- SA-28 Platy to very thin-bedded dolomite 2'11"
Yellowish-gray and medium-gray
calcareous(?) finely to medium
crystalline dolomite. Banded
with lighter and darker dolomite

Mt Hersey Section - 2-14-52

- SA-29 Medium-bedded dolomite 3' 8"
Yellowish-gray to medium-gray
limy dolomite. Lower 8" shows
well developed cryptozoan colonies
along entire outcrop. Remainder is
cryptozoan in nature, but does not
show development as well. Lower
8" is more limy & has no sand.
Scattered sand above.
- SA-30 Thin-bedded sandstone 0 8"
White to olive-gray dolomitic,
quartzitic fine to medium grained
sandstone. Some banding of
lighter and darker color.
- SA-31 Thick-bedded dolomite 1 5"
Light-gray to yellowish-gray
dense to finely crystalline limy
dolomite (or dolomitic limestone)
with scattered sand. Oolitic
- SA-32 Thin-bedded sandstone 0 7"
White to light olive-gray
calcareous(?) quartzitic sandstone.
Dolomitic (?). Lime deposit
on surface. Oolitic

Mt. Hersey Section - 2-14-52

SA-33 Platy to thin-bedded dolomite 4' 7"
Medium-gray to light olive-gray
dense to finely crystalline
limy dolomite with scattered
sand, oolitic

SA-34 Thin to medium-bedded dolomite 4' 4"
Medium-gray dense to medium
crystalline limy dolomite with
a few scattered sand grains,
oolitic

SA-35 Platy to medium-bedded dolomite 4' 9"
Light-gray to light olive-gray
limy dolomite. Lower 5" is
dolomitic sandstone. Remainder
has scattered sand. 7" sandy
dolomite 1' 6" from base.
Cryptozoon colonies.

(This & above samples to SA-29 may be limestone-check)
Thin to

SA-36 Medium-bedded limestone 5' 2"
Light-gray to light olive-gray, oolitic
dense to finely crystalline limestone
with scattered sand. Bedding in
upper 18" is wavy - thin bedded.

Mt Hersey Section - 2-14-57

- SA-37 Thin to medium-bedded limestone 4'6"
Light-gray and light olive-gray
dense to finely crystalline
limestone with scattered sand.
Unit contains thin irregular sand
and dolomite stringers.
- SA-38 Medium bedded limestone 3'4"
Medium gray, dense to fine crystalline
limestone with scattered sand(?)
3 inches from bottom a 2 inch bed
of sandy limestone. Cryptozoons
well developed in upper 1/2 of unit
- SA-39 Thin to medium bedded sandstone 3'2"
White to light gray, fine to medium
grained limy sandstone. Basal 4" is
sandy limestone; another 3" streak of
sandy limestone 1' from bottom
- SA-40 Thin to medium bedded sand & limestone 2'7"
Medium gray to yellowish gray, dense
to finely crystalline limestone. Oolitic
with scattered sand grains. Limestone
is lower 1'7" of unit. 10" white
to yellowish gray, fine to medium
grained limy sandstone

Mt Hersey Section 2-14-52

- SA-41 Thin to medium bedded limestone 3' 7"
Medium gray to brownish-gray, dense to medium crystalline, with scattered sand grains, dolomite xls (especially in lower 6") and small black chert nodules and stringers; limestone pebbles (?). Oolitic light gray, very sandy limestone in upper 10"
- SA-42 Very thin to medium bedded limestone 1' 1"
light gray and medium gray banded dense to finely crystalline limestone
- SA-43 Medium bedded, medium gray, dense 3' 6"
to fine crystalline, slightly oolitic (?) limestone. Lower 18" is sandy limestone, 6" yellow-gray fine to medium grained very sandstone above. 18" oolitic dense to finely crystalline limestone
- SA-44 Medium to thick bedded limestone 3'-
medium-gray, dense to finely crystalline, oolitic limestone with scattered sand grains. Cryptozoan structures well developed throughout.

Mt. Hervey Section 2-14-52

- SA-45 Medium bedded, light brownish-gray, 3' 3"
fine to medium grained dolomitic
sandstone. Upper-3" is brownish-
gray, medium crystalline dolomite
without sand.
- SA-46 Medium to thick bedded limestone 3' 5"
Medium gray, fine to medium crystalline
limestone. Lower 2'- silty (?) and dolie (?)
Upper 18" well developed cryptozooid beds
with silty partings
- SA-47 Medium bedded limestone and dolomite 2' 9"
Lower-10" light brownish-gray, sandy,
ling? dolomite. Upper is medium
gray dense to finely crystalline, banded
cryptozooid limestone.
- SA-48 Medium bedded sandstone -10"
Lower-5" light brownish-gray
ling, dolie? fine to medium grained
sandstone. Above that is dense
dark gray chert.

Mt Hersey Section 2-14-52

- SA-47 Medium bedded dolomite, 2'9"
Brownish-gray to medium gray,
sandy, finely crystalline dolomite.
Upper-9" is a dark gray, dense
silicious(?) dolomite without sand
- SA-50 Thick bedded sandstone 1'10"
Brownish-gray, very dolomitic
fine to medium grained sandstone
- SA-51 Medium to thick bedded sandstone 4'2"
Yellowish-gray to light brownish-gray
limy, dolomitic(?) fine to medium
grained sandstone. -16 inches from
top is an -8" bed of sandy lime-
stone
- SA-52 Medium bedded limestone and sandstone 2'7"
Lower-9" is a sandy, fine xllr. lime-
stone (gray) above: white, yellowish gray
friable, slightly calcareous, fine to
medium grained sandstone
- SA-53 Medium to thick bedded limestone 2'7"
Medium to dark gray, oolitic
finely to medium crystalline limestone.
Cryptozoan type bedding. Some dense
ls at top

Mt Hersey Section 2-14-57

- SA-54 Thin to medium bedded limestone 2'2"
Medium gray, oolitic, fine to medium
crystalline limestone with ostracods ???
-5" limy sandstone at base (fine to
medium grained sand)
- SA-55 Fine to medium bedded limestone 1'10"
Medium gray, oolitic fine to medium
crystalline limestone. Lower-6" white
to yellowish gray, calcareous sandstone
Above this-2" sandy, dolitic? limestone.
Remainder of lime free of sand.
- SA-56 Medium bedded limestone 3'10"
Medium gray, fine to medium
crystalline limestone (also dense)
oolitic. Unit from base up is:
-11" lt gray, limy, fine to medium
grained sandstone
-14" limestone described above
-9" sandstone as described above
1- limestone as above

Mt Hervey Section 2-14-52

- SA-57 Medium to thick bedded limestone 3'5"
Medium-gray dense to medium crystalline limestone. Scattered sand grains (?) Above is lower 1'9" of unit. Next unit up is 3" zone of yellowish gray limy sand with limestone pebbles. Upper 6" is brownish-gray, fine to medium xlln, very sandy dolomite. Sand has lime over it.
- SA-58 Medium bedded 3'8"
light yellowish-gray to brownish-gray limy, dolitic? fine to medium grained sandstone. Upper 8" is little darker gray and very limy (possibly a sandy limestone)
- SA-59 Medium bedded limestone 4'3"
Medium gray to olive gray, dense to fine crystalline, oolitic limestone in basal $\frac{1}{2}$.
Medium gray sandy limestone in upper $\frac{1}{2}$.

Mt. Hersey Section - 2-15-52

2-15-52 8:30 AM

SA-60 Thin- to medium-bedded sandstone 4' 9"
Light gray to white fine to medium
grained limy sandstone. More
limy at the base than at the top.

SA-61 Thin to medium-bedded sandstone 4' 2"
Light-gray to white, fine to medium
grained, very slightly calcareous
sandstone.

SA-62 Medium-bedded dolomite 1' 6"
Medium-gray to very light gray
sandy dolomite. Some sand
stringers. Slightly limy (weathering?)

SA-63 Medium-bedded sandstone & dolomite 5' -
From bottom upward:
1' medium-gray to light gray
fine to medium crystalline dolomite
with scattered sand.
4' light gray to light brownish
gray very dolomitic sandstone.
Dolomite is in stringers and as cement

Mt Hersey Section - 2-15-57

SA-64 Medium bedded sandstone & dolomite 5' -
From bottom upward:

1' brownish-gray fine to medium
grained sandstone. Slightly dolitic
in lower half and very dolitic in
the upper half.

8" Gray dense to finely-crystalline
dolomite.

Remainder of unit:

Light gray to light brownish gray
very dolomitic sandstone

SA-65 Thick-bedded dolomite 1.6'
Gray, dense to finely crystalline
dolomite with scattered sand?
Petroliciferous.

SA-66 Medium-bedded 2' 6"
Brownish-gray dolomitic(?), limy
fine to medium grained sandstone

SA-67 Medium-bedded dolomite 4' 1"
Light-gray to light greenish-gray
dense to finely crystalline, silty(?)
dolomite with scattered sand.
Upper half mottled light & dark
gray - especially on weathered
surface

Mt Hersey Section - 2-15-57

- SA-68 Thin to medium-bedded dolomite 4' 4"
Dark gray to medium gray & greenish gray, dense to finely crystalline silty dolomite with scattered sand. Lower 1' is especially sandy.
- SA-69 Medium-bedded dolomite 5' 0"
Medium-gray to olive-gray fine to medium crystalline dolomite with scattered sand grains (P) silty (P)
- SA-70 Thin to medium-bedded dolomite 2' 4"
Light-gray to light brownish-gray dense to finely crystalline dolomite with scattered sand. Upper 8" is very sandy dolomite. Basal 4" has no sand.
- SA-71 Medium-bedded 2' 1"
Brownish-gray dolomitic, calcareous sandstone and white, calcareous friable sandstone (6" bed 7" from base)

Mt Hersey Section 2-15-52

- SA-72 Medium-bedded sandstone 4'9"
Brownish-grey, dolomitic to
very dolomitic, calcareous(?)
sandstone. Stringers of dolomite
and sandy dolomite. 2' from
base is 1'7" of friable, only
slightly dolie(?) and limy sand.
- SA-73 Medium-bedded dolomite 4'11"
Brownish-gray very sandy dolomite
with ^{gray} stringers of pure dolomite.
- SA-74 Medium-bedded sandstone & dolomite 5'0"
Light gray to medium-gray dense
to finely crystalline dolomite
and dolomite with scattered
sand. Basal 4" is white
calcareous sandstone and
another bed (10") of dolomitic
and limy sandstone. 1'10" from
top. Other thinner sand
stringers.

Mt Hersey Section 2-15-57

- SA-75 Medium-bedded dolomite 4' 3"
Brownish-gray to gray sandy to very sandy dense to finely crystalline dolomite with thin sand stringers. Basal 8" is white sandstone.
- SA-76 Medium to thick bedded dolomite. 5' 3"
Dark brownish-gray to medium-gray dense to finely crystalline sandy dolomite. Sandy streaks. Dolomite xls
- SA-77 Medium-bedded 4' 0"
Gray to grayish-brown dense to finely crystalline sandy dolomite. Sand is irregular - from very sandy to only floating grains. More sand in lower half. Dolomite crystals
- SA-78 Very thin to thin bedded sandstone 1' 0"
& dolomite
Basal 4" is brownish-gray dense to finely crystalline dolomite with scattered sand.
3" white calcareous (?) fine to medium-grained sandstone.
Remainder is brownish-gray dense dolomite.

Mt Hersey Section - 2-13-89

- SA-79 Thick-bedded dolomite 2' 10"
Brownish-gray sandy to
very sandy dolomite. The
upper 6" is dolomitic and quartzitic
sandstone
- SA-80 Thin to medium-bedded dolomite 1' 4"
Brownish-gray (weathers light
gray dense dolomite, coarsely
crystalline dolomite-white
- SA-81 Medium bedded dolomite 4' 4"
Lower 3': gray-brown very sandy
finely xltm dolomite
-4" - white, medium grained, calcareous
sand
Top 1': Dark gray dense to finely crystalline
dolomite without sand
- SA-82 Medium bedded dolomite 6' 2"
Gray, brownish-gray, dark gray,
slightly sandy to very sandy, finely
crystalline dolomite. Some thin
dolomitic sand stringers. At
top of unit 4" dolomitic sand.

Mt Hersey Section 2-15-52

- SA-83 Medium to thick bedded 2' 7"
 Brownish-gray to light gray, medium
 bedded sandstone, dolie to very
 dolie, fine to medium grained. Lower
 foot is more dolomitic.
- SA-84 Medium to thick bedded sandstone 4' 5"
 and dolomite. From base upward:
 - 3" Dark gray, slightly sandy dol.
 14" White to lt. brownish-gray, dolie ss
 Remainder: Dark brownish gray,
 sandy dolomite
- SA-85 Very thin to medium bedded dolomite 3' 3"
- SA-85F Medium gray to dark brownish-gray,
 dense to finely crystalline dolomite.
 Some coarse xls mineral dolomite.
 Upper 1" is sandy dolomite and
 contains ostracods.
- SA-86 Medium bedded sandstone 1' 3"
 White to brownish-gray, fine to
 medium grained, dolomitic sandstone

Mt Hersey Section 2-15-52

- SA-87 Medium bedded sandstone 1'3"
from base up:
1-1/2" brown-gray to yellow-gray
fine to medium grained dolomitic
in lower 1/2, limy in upper 1/2.
-3" sandy, oolitic, olive-gray, finely
crystalline limestone
- SA-88 Thick bedded dolomite? 1'1"
Medium gray, silty, calcareous
medium crystalline dolomite or
dolomitic limestone.
- SA-89 Medium to thick bedded sandstone 3'1"
White to brownish-gray, calcareous
and dolomitic sandstone. Lower
half mostly brownish-gray and
dolitic; upper 1/2 mostly white and
calcareous.
- SA-90 Medium bedded limestone 1'3"
Medium-gray to olive-gray oolitic
dense to fine crystalline limestone
Scattered sand in lower 2"

Mt Hersey Section

- SA-91 Thick bedded sandstone 2'9"
White, limy, fine to medium grained
sandstone
- SA-92 Medium bedded limestone 2'2"
Medium to olive-gray, fine to
medium crystalline limestone
slightly sandy(?), oolitic?
ostracodal (SA-92 P) $\left\{ \begin{array}{l} \text{v. sh. in upper} \\ \text{6" } \end{array} \right.$
- SA-93 Medium bedded sandstone 2'9"
Brownish-gray to white
olitic & limy, very fine to medium
grained sandstone. lower 6"
olitic, remainder limy or with
silicious cement
- SA-94 Thick bedded dolomite 2'6"
light brownish-gray finely
crystalline dolomite with yellow-
orange xls which are probably
weathering. Upper 6" an olive-gray
finely crystalline, oolitic limestone

Mt Hervey Section 2-15-52

- SA-95 Medium bedded dolomite 2'-
Brownish to greenish-gray, silty,
sandy, limy dolomite
- SA-96 Medium bedded dolomite 3'9"
Brownish-gray medium crystalline
dolomite. Scattered sand in lower
1/2 of unit. Yellowish-orange xls
of "god-only-knows-what" all through.
Silty?
- SA-97 Medium bedded dolomite 3'6"
Medium-gray to brownish-gray
Fine to medium xln dolomite
- SA-98 Very thin to thin bedded 1'6"
limy, sandy, siltstone. Seems to
grade laterally into lime. An
old soil? Resembles a mat!
- SA-99 Very thin to thin bedded limestone 3'3"
Olive gray, oolitic dense to fine
crystalline limestone. Sandy in
upper 1'

Mt Hervey Section 2-15-52

- SA-100 Medium bedded sandstone 1'1"
Greenish and yellow-gray
calcareous, fine to medium
grained sandstone. Has rounded
pebbles up to 2" in diameter
of darker gray sandy limestone
concretions?
- SA-101 Thick bedded limestone 1'2"
Olive gray, sandy, fine to
medium crystalline limestone
- SA-102 Medium to thick bedded dolomite
and sandstone. From base up 2'9"
-10" Dark gray, finely xllr dolomite
Brownish-gray to yellowish-gray
1'11" dolio and fine(?) fine grained
sandstone
- SA-103 Thin to medium bedded dolomite 3'6"
Light brownish-gray to dark gray
dense to finely crystalline dolomite
Silty? Medium crystalline in upper
part

Mt Hersey Section 2-15-52

- SA-104 Medium bedded siltstone 3'3"
 Dolomitic, sandy, siltstone
 green-gray. Basal unit grayish
 gray, hard dolomitic siltstone.
 Hard zone overlain by unit which
 weathers back and can't be
 reached
- SA-105 Medium to thick bedded sandstone 2'8"
 White to yellowish-brown, slightly liny
 fine to medium grained sandstone
 Quartzitic on surface - is this
 actual or is it a liny sandstone
- SA-106 Medium bedded dolomite and sandstone 3'7"
 Base upward:
 1'7" Brownish-gray medium xllr dolomite
 no sand
 6" Yellowish-gray, dolomitic, fine
 grained sandstone
 18" Brownish-gray, sandy, silty dolomite
 medium xllr.
- SA-107 Medium to thick b 3'3"
 Gray to brown-gray sandy, fine
 xllr dolomite. Silty(?)

Mt Harsay Section 2-15-52

2-18-52

SA-108 Thin to medium bedded sandstone and dolomite 3'10"

Base upward?

-10" white, limy, fine to medium grained sandstone

1' Brownish-gray dolomitic sandstone

2' Medium-gray fine to medium crystalline dolomite, silty?

Top of this unit is discontinuity?

SA-109 Medium to thick bedded 6'9"
White, limy, fine to medium grained friable sandstone

2-18-52

Covered Interval

58'

Contains many float blocks of sandstone similar to overlying sandstone

SA-110 Medium to thick bedded sandstone 3'11"
Yellowish gray, greenish gray, fine grained sandstone.

SA-111 Thick bedded to massive sandstone 4'3"
Yellowish gray (with brown staining)
fine grained sandstone.

Note: These upper ledge forming sandstones
(SA-110 & 111) are overlain
by Boone Chert rubble. They
form a flat bench along hill top
with Boone fm (St Joe ls?) forming
mound about 50' from outcrop
of SA-111

Finis 2:05 PM; 2-18-52

9:30 AM 2/19/52

Short Section #1

Section starts at the base of water-fall at about the 1000' contour line NE $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 26, T. 16 N., R. 19 W., Newton Co., Ark. The section includes this lower waterfall face, the gently sloping overlying bench, and an upper 15" step of dolomite & sandstone

YC-1 Thin to medium-bedded sandstone 0' 8"
White to light gray (weathers orange-brown) fine to medium grained Sandstone

YC-2 Thin to medium-bedded dolomite 1' 5"
Medium-gray sandy dense to finely crystalline dolomite. Sand varies in abundance from scattered to very sandy. Some thin sandy streaks. (Layer 1" thick of sand 3" from base) Less sand at the top of the unit.

YC-3 Thin to medium-bedded dolomite 2' 6"

YC-3-P Medium-gray with olive-gray patches and stringers, dense to finely crystalline dolomite with scattered sand. Limy? 10" from base is 8" of sandy dolomite with a few ostracodes and coarse argilline mineral dolomite.

Short Section #)

- YC-4 Medium-bedded dolomite 1' 11"
Light-gray-brown sandy to very
sandy dense to finely crystalline
dolomite. Sand increases upward
to a dolomitic sandstone in upper 2"
Thin stringers of sand.
- YC-5 Thin-bedded sandstone 1' 0"
White to light-gray calcareous (?)
quartzitic sandstone. (Friable in upper
5") 3" band of dolomitic sandstone
3" from bottom. (Sandy dolomite (cell get top))
Slight disconformity.
- YC-6 Thin-bedded limestone 0' 4"
Medium-gray oolitic dense to
finely crystalline limestone
with scattered sand. (This
unit pinches in and out abruptly
along the outcrop suggesting
a disconformity at the top
of the unit. Upper beds drape
into the voids where the lime
is absent.

Short section #1

YC-7 Thin to medium-bedded sandstone 3' 0"
Light yellowish-gray calcareous
Fine-grained sandstone. Upper
3" very limy.

YC-8 Thin to medium-bedded limestone 1' 7"
Light brownish-gray to medium-gray
dense to finely crystalline limestone
Lower 7" oolitic and sandy, remainder
is oolitic and sandy. Lower part
is more coarsely crystalline. Silty
layers (weathering?) between beds.

YC-9 Thin to medium-bedded sandstone 2' 8"
White to very light-gray limy
Fine to medium-grained sandstone.
Hard. Weathers yellowish

YC-10 Thin to medium-bedded limestone 2' 1"

YC-10P Medium-gray, dense to finely crystalline
limestone. Sandy in lower $\frac{1}{2}$ of unit.
Slight disconformity at top --
upper bed pinches out horizontally
Many oster codes.

Short section #1

- YC-11 Medium-bedded sandstone 2' 7"
White to light gray with light
olive-gray patches, calcareous
(possibly dolomitic?) fine to medium-
grained sandstone, weathers brown
at top.
- YC-12 Medium-bedded dolomite 1' 7"
light yellowish-gray and greenish
gray ^{very} fine dolomite, Dolomite
crystals with lime cement.
- YC-13 Thin to medium-bedded dolomite & limestone 3' 7"
light greenish-gray to medium-gray
fine to medium-crystalline dolomite,
sandy in lower 3". 1' 1" from base
is a 1' bed of medium-gray
dense to finely crystalline sandy?
oolitoid limestone with greenish
shale partings. Above the line
is a greenish-gray, limy, dolomitic?
sandstone? 6" thick. Upper few
inches is dolomite.

Short section #1

- | | | |
|--------|--|--------|
| YC-14 | Medium-bedded dolomite
Greenish-gray to medium gray limy
dense to finely crystalline dolomite
with scattered sand grains. | 0' 10" |
| YC-15 | Thick-bedded limestone,
Light olive-gray oolitic, dense
to finely crystalline limestone
with scattered sand? | 1' 9" |
| YC-16 | Thin-bedded | 1' 3" |
| YC-16P | Greenish to yellowish-gray dense to
finely crystalline limestone with
scattered sand. Ostracodes | |
| YC-17 | Medium to thick-bedded dolomite
Medium-gray, finely crystalline dolomite | 5' 11" |
| — | Covered interval | 0' 7" |
| YC-18 | Thin-bedded dolomite
Medium-gray, finely crystalline dolomite | 1' 2" |
| YC-19 | Thin-bedded dolomite,
Medium-gray, sandy(?) finely crystalline
limy(?) dolomite. | 0' 3" |

Short section #1

- | | | |
|-------|--|--------|
| Yc-20 | Thin-bedded limestone
Yellowish-gray oolitic dense limestone | 0' 11" |
| Yc-21 | Medium-bedded sandstone
very light gray (greenish-gray weathering?)
(dolomitic?)
very limy fine to medium-grained
sandstone. Thin 2" stringer of
limy dolomite 1' 2" below top of unit.
Upper 1' dolomitic & limy sandstone. | 3' 8" |
| Yc-22 | Medium-bedded dolomite
Greenish-gray, medium-crystalline
dolomite with limy cement.
Some orange-yellow weathering? | 1' 0" |
| Yc-23 | Medium to thick-bedded dolomite
Medium-gray, finely crystalline dolomite
with scattered sand grains? | 1' 11" |
| — | Covered interval | 1' 0" |
| Yc-24 | Thick to thin (upper 8") bedded sandstone
Light-gray to greenish-gray
fine-grained dolomitic and
limy sandstone. Upper 8" is
sandy dolomite | 2' 6" |

Short section #1

YC-25 Thin to medium-bedded dolomite 3' 8"
Light gray, greenish-gray, and yellowish
gray dense to finely crystalline
dolomite. Lower 14" is thin
bedded with scattered sand; weathers
light gray & is dense. Remainder
is fine to medium-crystalline
and is sandy dolomite. Greenish
silty partings in upper part.
Entire unit slightly limy (weathering?)

— Covered interval 1' 8"
(Probably same as YC-26)

YC-26 Thin-bedded sandstone 2' 7"
white to yellowish-gray
limy (?), fine to medium
grained sandstone.

YC-27 Thin-bedded dolomite (?) 2' 10"
Dark gray to greenish-gray
medium crystalline limy (?) sandy (?)
dolomite.

YC-28 Medium-bedded sandstone. 1' 1"
White to light-gray limy fine
to medium-grained sandstone.

Short Section #1

- YC-29 Medium-bedded dolomite 5' 0"
Dark-gray, medium-gray, finely
to medium crystalline sandy
dolomite, and dolomite without
sand. Coated with calcite
Bedding is irregular.
- YC-30 Medium-bedded dolomite 5' 3"
Dark to light gray, finely to
medium crystalline sandy
dolomite. Upper 1' is slightly
silty and calcareous - very sandy
Coated with calcite
- YC-31 Thin to medium-bedded sandstone - 6' 0"
white to yellowish gray fine
to medium grained sandstone.
(This is ^{the top of} the Lower St. Peter
Bluff.)

Fin. 4:00 P.M. 2-19-52

5-11-54

T18N R21W South point of
shoulder

Atoka ss.

10' Covered

10' limy f-m gr ss

10' Covered

10' Limestone

50+ Cov. interval

10' f-m gr limy ss

Smith Mountain #1
(Glick & Frazier)

5-13-54

Section measured in large gully
in NW SE sec 33, T15N
R 21 W, Newton County Ark.

- SM-1
2'2" Shale, fissile, dark gray
interbedded with dk gray & hard
silty (?) beds 3" thick; one at
base and one 1' from top of
unit. (beds are either siltstone
or ironstone. Lowest exposed unit)
- SM-2
1'10" Conglomerate, no bedding; one unit
limy, khaki to brownish gray colored
contains shale pebbles up to 4" long
avg. 1" long; fossil frags, white
quartzite pebbles in matrix of
medium to fine limy, silty sand,
(contains brachs, crabs.)
- SM-3
4'3" Limestone, massive, brownish gray
with fine to c gr sand, quartz-
ite pebbles up to 1/4" in diam,
fossil frags, granularly undet.
grades into underlying congl.
sl. x laminated in part.

Smith Mountain #1

5-13-54

- SM-4
5'0" Limestone, brownish gray; fine grained, massive, with quartzite pebbles, scattered shale pebbles, fossils: brachs, crin., bryozoa, corals, abundant limonite blebs
- SM-5
5'6" Limestone, massive medium gray to olive gray, finely granular, very fossiliferous, slightly sandy, incoarse sand grains, fossiliferous: crin., brachs.; limonitic when weathered.
- SM-6
5'6" Limestone as below; color more brownish-gray
- SM-7
3'3" Limestone, medium to thick bedded becomes more silty & sandy in upper 1/4 of unit. Otherwise as below.
- SM-8
1'7" Shale, dark gray to black, fissile, clay shale; poorly exposed
- SM-9
6'6" Sandstone, massive, brownish gray fine grained, very lumpy, limonite stained. Few crin. cols.

Smith Mountain section²¹ 5-13-54

- SM-10 Sandstone as below
6'6"
- SM-11 Sandstone as below; grades into
1'8" overlying limestone, containing
few shale chips in upper part
Thin to medium bedded;
X laminated
- SM-12 Limestone, med. bedded, med. gy.
4'0" to br. gray, v. fossiliferous
finely granular.
- SM-13 Sandstone, medium to thick
5'10" bedded, brownish gray, iron-stained
silty, v. limy & f-f grained
fossiliferous in part; brachs &
crins.
- SM-14 Sandstone; massive; brownish gray
7'1" fine to medium grained, very limy,
abundant shale pebbles in lower
1'0"; sl. glauconitic, crins & brachs
locally
- SM-15 Sandstone, medium bedded, brownish
5'2" gray, very badly weathered, fine
grained, limy, shale chips
crins, platy bedded siltstone (3") in
center of unit and locally at top

Smith Mountain #1

5-13-54

- SM-16 6'0" Sandstone, thick bedded to massive dark brownish gray, very limy, fine to medium grained, laminated, conc.
- SM-17 4'3" Sandstone medium bedded brownish gray very limy, fine to medium grained, abundant maceated fossils; a sandy ls. in part. Dark gray siltstone and/or shale partings between the beds. Upper 6" is lenticular with many shale pebbles (congl.)
- SM-18 5'0" Siltstone, platy bedded, medium to dark gray interbedded with g. ss. beds up to 2" thick in lower 2'0" of unit. Not much ss above that
- SM-19 2'0" Siltstone, shale & congl. fissile to 5' thick beds, highly contorted due to slump
(a) Sandstone, v. limy silty to coarse grained with shale pebbles (conglomeratic) conc. cols; prob a congl. siltstone

Smith Mountain section #1

5-13-54

- SM-20 Shale dark gray, fissile, containing
13'0" ironstone bands up to $\frac{3}{4}$ " thick.
Well exposed.
- 14'6" Covered interval, to poorly exposed
shale as below.
- SM-21 Shale, dark gray, fissile,
10'0" becomes increasingly silty toward
top with bands of silty shale,
contains ironstone bands up to
 $\frac{1}{2}$ " thick
- SM-22 Shale as below, silty in part. Some
6'8" siltstone bands up to 3" thick
some poorly developed ironstone.
Middle 2' mostly clay shale with
streaks of silt.
Upper 2'0" finely banded dk gy to
black clay shale & lite gray siltstone
- SM-23 Siltstone, platy to thin irregular
5'5" bedded, khaki colored, sl. limy
& gr. ss beds up to 2" thick in
lower one foot. Upper $\frac{1}{2}$
siltstone beds have dk gy fissile
partings & beds up to 2" thick

Smith Mountain section

5-13-51

- SM-24 0'8" (lower) v silty v limy fgy ss
5'2" rusty brown weathering, contains
shale chips. A single bed -
4'6" thin to med. bedded, br. gray
sl limy v silty v fine gr
ss of siltstone (upper part
of unit)
- 4'0" Poorly exposed to covered - dk gray
shale with few siltstone beds
- SM-25 4'4" Shale, dark gray fissile clay,
interbedded with light gray
thin bedded to platy siltstone
beds up to 1" thick. Upper
18" is platy siltstone to
v fgy ss with thin fissile shale
partings, underlain by 5"
siltstone with clay + ironstone
pebbles up to 1 1/2" long.
- SM-26 6'7" Sandstone, massive, brownish
gray, med to v grained, v limy
crin cols; lower 6" has clay
pebbles

Smith Mountain #1 Section

5-13-54

- SM-27 2'6" Shale, dark gray to black, fissile
some breccia composed of yellowish
gray lime calciche containing
shale frags. This appears to
be crevice or cave deposit.
This breccia is secondary!
- SM-28 7'0" Sandstone, massive, dark
brownish gray, v. fine grained
v. limy, contains some shale
frags & chin cols
- SM-29 8'2" Sandstone as below; Upper
16" is finely gran. to f x l/m, calcitic
ls containing brachs
- SM-30 5'6" Sandstone, medium bedded
highly x laminated, dark
brownish gray to khaki
v. fine to med. grained, very limy
conglomeratic at base with
shale chips. Spale chips, partings
and lenses scattered throughout
unit

Smith Mountain section #1

5-

SM-31

6'4"

Sandstone as below - brick red shale pebbles up to 3" long throughout unit. A 1' bed of med gray siltstone with top 1' below top of unit. X bedded with overlying + underlying sandstone

SM-32

Sandstone massive brownish gray, coarse grained, contains quartzite pebbles up to 1/2" in diameter, plant impressions, only lower 5' of 25' (+) cliff sampled. Base of Atoke fm

May 18, 1954

Mountain Smith Section
(Chisbolm & Glick)

Location: in First Large Gully
North of Smith Mountain Section
NW $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 33, T-15N, R 21W

Section starts at the base of the Fayetteville ls

MS-1
1'-6" Shale, fissile to platy. dk gy to
blk. has dk gy silty ls concretions
about 1" thick and 4" long in rows.
at top of zone some tiny crinoid
columns.

MS-2
1'-5" Ls thick bedded - dk gy ds
to F green. trace of brachs & crinoids
lower 5" very silty Ls grades
upward from shale below.

at top of MS-2 shale breaks $\frac{1}{2}$ " to
1" thick.

MS-2
0'-6" Ls thick bedded to massive.
MS-3 and 4 have no break between
dk gy. F green to ds.
tends to weather knobby on "CLINE"
base siliceous? brachs, crinoid
columns.

May 18, 1954

Mountain Smith section

- MS-4
6'-6" Ls thick to massive bedded
ls as below. upper part of
MS-3 and all of MS-4 make
Foss. Less dense and probably
less siliceous.
- MS-5
1'-7" Ls & shale partly exposed
basal 7" apparently set with
Fissile shale - upper - 1" 3
beds of ls. - Ls dk gy
F gran to ds. shale partings
between beds. abundant brachiopods
and crinoid columns.
- MS-6
1'-9" Ls - thick bedded dk gy
F gran to ds. abundant brachiopods
and crinoids.
- MS-7
9'-9" at base 4' of Fissile shale exposed.
5' 9" partly exposed to covered maybe
shale or shale of thin ls. beds.
- MS-8
5'-1" Ls. med bedded dk gy F gran
extremely silty. these beds are
very fresh but still are almost a shale
and upon further exposure might
appear to be a shale.
- Top of Fayetteville —

May 18, 1957

Mountain Smith Section

- MS-9
11" LS med. bedded Single bed.
DK gy F gran. extremely
Foss. w/ crinoids & brachs
in lenticular zones about in
half of unit other parts not
too Foss.
- MS-10
7'-2" LS- med to thick bedded, dk gy
F gran. v. Foss. crinoids, Archonelles,
brachs.
- MS-11
5'-3" LS- med to thick bedded LS
as below w/ shale break at
top of unit. 9" thick in
this unit apparently shale.
Not sampled Not exposed as such.
- MS-12
5'-10" LS- med to thick bedded.
med dk gy. F gran. partly calcareous
to oolitic in part. contains
dk F gran to ds. chert lenses
up to 6" thick upper $\frac{1}{3}$
of unit may have shale
partings but not seen.
- MS-13
9'-1" LS thick bedded to massive
med dk. gy. F. gran v. Foss. in part
contains chert lenses up to
4" thick and 1" long but most small.

May 18, 1954

Mountain Smith Section

- MS-14
10'-7"
Ls - thick bedded to massive.
Med dk gy F. gran.
oolitic, in parts br gy where oolitic
oolitic mostly in center. 5'
IF unit upper and lower parts
darker gy and not oolitic.
- MS-15
8'
Ls - thick bedded dk br gy.
F gran. crinoids lower 1' extremely
silty weathers back.
- MS-16
6'-6"
Ls med bedded to massive.
med dk gy to med gy, F gran
crinoid frags. massive bed
in middle w/ silty soft zones
above and below which weather
back.
- MS-17
7'-6"
Ls - massive br. gy, F. gran.
has small crinoids. slt oolitic.
- MS-18
2'-6"
Ls - thick bedded. dk gy F. gran.
slt. Foss. Lower 8" soft
zone mt exposed maybe black slt.

May 18, 1957

9410"

Mountain Smith Section

MS-19
2'

blk fissile shale, wavy.

3'-10"

Covered zone.

MS-20
7'-9"

Ls. thin to med irregular
to irregular lenticular bedded.
dk gy. f gran to ds.
foss. brachs thin up to 1"
thick lenticular limy shale
partings

MS-21
8'-1"

Ls. as below but has one bed of
dk gy limy chert up to 8" thick. 3' from
top of zone

MS-22
6'-11"

Ls. br gy med to thick bedded
f gran to ds.

MS-23
1'-2"

Ls. med. bedded med gy.
f gran silty? Lower 4"
of unit soft maybe shaly weath
back and not seen

19'-6"

covered zone

May 18, 1957

Mountain Smith Section

MS-24
8'

LS- massive, oolitic
br. gy to med gy f. grms a few
brachs and crinoid frags.
Limonite, stain where weath.

MS-25
8'-6"

LS- massive crinoids, oolites
Limonite blocs, br. gy. weath to
med. gy. has some v.f. gr sand
in crevices from sandstone in Hale
sand not in unit.
upper surface in general smooth,
rocks not appear channeled.

← Top of Pitkin →

MS-26
11'

1
11' as published

SS- thick bedded to massive
irregular lenticular on weathering
highly contorted in part.

honey comb type of surface
weathering in part. ss limy
where not leached. has some

Lower most bed, oolitic f. gr. LS. 3" thick
Med br but weath. } gradual into
v.f. to f. gr. ss. } Sand above.

Error on published
copy (4") not
corrected
EG

apparently no basal conglomerate
in the area of this outcrop.

Sand v. limy to top of unit.
Sandstone forms overhanging
cliff w. water fall.

May 18, 1954

Mountain Smith section

80' - covered zone affimeter
measurement.

MS-27 Shale dk gy to blk
25' Fissile - ironstone bands (subseq)
up to 1" thick.

Top of Cane Hill

horn Mt. SS. above MS-27

MS-28P brachs taken from 7"
of 15 below the atoka.
Atoka rests on this ss.

May 23, 1955

Buffalo River Terrace

Location: Section measured
River level to top of terrace
on the North Bank of the
River center Sec. 2, T 15N,
R 18W

- T-1
2'-4"
Starts at River level -
VF gr silty sand unindurated brown
color. grades upward into
overlying finer grained
sediment. apparently number
and size of sand grains
increase downward.
- T-2
4'-6"
Dark br unindurated silt. containing
wood fragments. Note surface
of crop covered w/ F gr sand which
does not belong in unit but some get in.
- T-3
4'-6"
Silt as T-2 but some roots from
plants now growing.

May 23, 1959

Buffalo River Terrace

T-1 through T-3 are a few hundred feet down stream from a Bluffs cliff and there are lenses and discontinuous beds of chert and ls. fragments in terrace material as far down stream as this section.

Some of material in lenses show rounding and were probably stream deposited.

May 23, 1954

Buffalo River Terrace # 2

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ SEC. 3
T 15N, R 18W

ON South side of River
about 500 Feet from River.

This section measured from Flood
channel of River to top of Terrace.

T-4 unindurated sediment - F gr
10' Sand, silt mica.

May 23, 1954

Robert's Farm Section

Location: $N\frac{1}{2}$
NE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec 15,
T 15 N, R 18 W

This section was measured
along the main N, NE Fork of
the tributary stream to Richland Creek.
Located in the SW $\frac{1}{4}$ of Sec. 15.
This tributary is about $\frac{1}{4}$ of a mile
North of the Robert's Farm.

RF-1
5' 0"

Ls. med bedded. Lt to med. gy.
Foss. glauconitic. F to med. xln.
Contains chert globes up to
1" across - sort of Fat Lenses.

Top of Boone -

RF-2
0' 6"

Ls - med bedded. dk gy f. gran to
med xln. crinoids brachs.
Conglomeratic w/ chert up to 1" across
of med. gy. ds. chert.

1' 0"

Covered interval.

RF-3
2' - 9"

Ls. very thin to thin bedded.
med. dk gy, f. gran, abundant crinoids f
brachs. Very silty & maybe a Ling
Siltstone in upper 2'.

May 23, 1967

Robert's Farm Section

- RF-4 2'-2" Ls. med bedded DK gy v Foss. in part. oolitic in part, F gran. Whole unit is very silty in some parts
- 14' 0" Covered interval
- RF-5 3'-2" Lower 8" Ls v. thin bedded, v. silty, med to br gy, has olive gy shale partings overlying Ls in two thick beds, dk gy. F gran extremely Foss.
- RF-6 1'-8" Lower 4" single Ls bed med gy, F gran. no Fossils noted.
middle 6" Ls thin bedded to platy, br. gy v. silty weath. back.
single Ls bed 10" thick med. dk gy. v. Foss. F. gran.
- RF-7 2'-6" siltstone, massive, Lt. br. gy. v. limy. top 6" soft badly weath. khaki colored shale w. v. thin $\frac{1}{2}$ " streak of crinoidal Ls in it.
- RF-8 4' 0" Ls - thick bedded med. gy Foss. extremely silty F gran.

May 23, 1954

Robert's Farm Section

RF-8 interbedded w/ and interlaminated
(cont) w/ Khaki colored siltstone -

some cross-lamination present.
Siltstone or silty part is ~~not~~
obvious only on the weathered
surface probably the silt
content helped w/ the leaching
of the more silty part.

RF-9 siltstone, within to med. bedded
5'-8" cross-laminated in part.

Lt. br. gy. v. limy where not
leached.

upper 2'-6" maybe slightly
coarser grain size and badly
leached.

grain size increase upward to a
very f. gr. ss at top of unit.

2' 0" covered interval

RF-10 Ls thin to med. bedded, dk. gy
6'-6" f. gran extremely silty to
v. sandy maybe limy siltstone.

upper 2' of unit more silty -
and definitely a limy siltstone.

this unit directly overlain by
kyeterville shale apparently, conformably.

May 23, 1953

Lower Batesville section

Location:

SE $\frac{1}{4}$ Sec. 33, T. 15N, R. 17W
along Lick Fork Road starting at place where
the tributary of Grandy Creek crosses
the Lick Fork Road.

Description:

20' Shale rests directly on
exposed gently undulating Boone surface.
Top concealed shale very thin bedded to platy
med. brgy. Silty shale
contains a few fossils, mostly
brachs. Some beds are v. drgy
and fissile, but get a lot of
variation in shale appearance
is part due to weathering.
Fossil frags limited to lower
part of shale.

May 27, 1959

Batesville Section

Location: NE $\frac{1}{4}$, SE $\frac{1}{4}$, Sec 33, T15N,
R 17W. Section measured along
Small Eastward tributary to Grassy Creek
Starting just west of a farm house north of the
tributary to the Lick Fork Road. Snowball Quad.

14' - shale - shale conformably
overlies Beine.
36' F' - overlain by interbedded
silty ls, siltstone, shale,
lower part very fossiliferous
upper part appears to be
a limy silty vf gr ss.

May 25, 1954

MOORE - Prairie Groove and OR
Blaze Section.

Location: SW $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 23, T13N, R19W,
Snowball Quadrangle Arkansas,
This section was measured along
the main southeastern Fork of
the Tributary of Richland Creek
Located in the N $\frac{1}{4}$ of Sec. 23

- MB-1 SS - Massive? med gr. iron
2' stained very heavy where wet
185 5 Leached up to c. gr. Contains
187 5 quartzite granules and pebbles
most $\frac{3}{4}$ " and shale pebbles
up to 1" unit related or
close to this is exposed in
a tributary near here where the
SS is 30' to 40' thick.
Numerous like fissile shale
partings in upper part of
unit and apparently grades
into upper unit.
- MB-2 Siltstone & shale interbedded
4'-7" shale - blk, drgy. fissile
180 10 makes up about slightly less than
183 15 $\frac{1}{2}$ half of unit.

May 25, 1954.

MOORE SECTION

MB-2 $\frac{1}{2}$ is interbedded throughout
unit.

Siltstone fissile to
thin bedded. Khaki to brgy
grades into silty shale &
VF + F ss actually siltstone
shale and ss all interbedded
in this unit. Some fine
ss beds up to 4" thick
a few sand beds w/
C sand grains and a few
quartzite pebbles. ss is
limy.

MB-3 Siltstone, thin to thin bedded.
4'-10" Khaki colored. Non-limy.
176 Slightly sandy in part.
180 10 has abundant blk shale partings.

MB-4 Siltstone, platy to thin bedded.
4'-6". med. gy. Lower 1' has F gr. ss
171 6 beds up to 2" which makes up
176 0 about $\frac{1}{2}$ of lower 1'.

MB-5
2'-6" BLK fissile clay shale - 2' ; 6"
169 of silty limy conglomerate, lenticular
171 6 along crop. mostly made up of siltstone
pebbles clay pebbles and trace of
quartzite pebbles

May 25, 1959

MOORE SECTION

- MB-6 shale - 1'-4" is: dk gy to BLK
1'-8" Fissile to platy sh. silty shale
167 4 upper 4" silty sandy limy
169 0 conglomerate as in MB-5
quartzite pebbles up to $\frac{1}{2}$ "
Laterally along outcrop the conglomerate
increases to 8" being very
Lenticular, and sort of grades
into conglomeratic ss.
Ooloid columns.
- MB-7 Siltstone platy, irregularly
7'-4" lenticularly bedded, numerous little
167 4 lenses along the creep.
med. gy
upper 1' of unit. contains
thin beds of f gr. ss.
- MB-8 ss - med to thick bedded.
7'-7" med. br gy. v. limy w/ f to w c
162 0 grains. contains quartzite pebbles
160 0 and granules up to about $\frac{1}{2}$ "
shale pebbles
Upper 11" is blk fissile
Shale.
- MB-9 ss - med to thick bedded.
5'-6" br gy but weath and leached
166 0 limy where not completely leached.
162 5 iron stained. med gr. w/ a few

May 25, 1959

MOORE SECTION

- MB-6 shale - 1'-4" is. dk gy to blk
1'-8"
167 4 Fissile to platy sl. silty shale
169 0 upper 4" silty sandy limy
conglomerate as in MB-5
quartzite pebbles up to $\frac{1}{2}$ "
Laterally along outcrop the conglomerate
increases to 8" being very
lenticular, and sort of grades
into conglomeratic ss.
crinoid columns
- MB-7 siltstone platy, irregularly
7'-4"
167 4 lenticularly bedded, numerous little
lenses along the top
med. gy
Upper 1' of unit, contains
thin beds of fine ss.
- MB-8 ss - med to thick bedded.
7'-6"
168 2 med. br. gy, v. limy w/ f to v. c
160 0 grains contains quartzite pebbles
and granules up to about $\frac{1}{2}$ "
shale pebbles
Upper 11" is blk fissile
shale.
- MB-9 ss - med to thick bedded.
5'-6"
166 4 br gy but weath and leached
162 5 limy where not completely leached
iron stained. med gr. w/ ated

May 25, 1957

make section

MB-9
(Cont'd)

quartzite granules
upper 2'-5" is platy siltstone
med. gy.

BM-10

11'-6"

123-6

146 11

Siltstone, platy, med to dk gy
poorly exposed in part, weathers to
a silty fissile shale in part.

BM-11

4'-7"

135-5

SS - med to thick bedded
med br gy F grs not very
now but may have been leached.

BM-12

6'-2"

144-18

130-10

SS as below stained blk in
part. somewhat coarser grained
upto med. gr grain size
increases upward.

11'-8"

124-8

BM-13

5'-6"

123-0

4'-4"

117-6

BM-14

1'-4"

113-2

5'

siltstone - platy bedded, med. gy.

covered interval.

siltstone as BM-13

covered interval.

MOORE SECTION.

Bm-15 Siltstone as Bm-13
6'-6"

18'
50'
70'
Covered interval containing
one thin siltstone crop near the
middle.

Bm-16 siltstone platy to thin bedded
16'-6" med. dk gy. some of
beds. in upper 5' are
as much 5" thick.

6'-1" covered interval.

Bm-17 Blk fissile clay shale.
20'

10'-6" covered interval probably all
shale as Bm-17 some
slumpy shale exposed in slips.

Bm-18 dk gy to blk fissile to platy
5'-6" shale.

8'-6" covered interval probably blk
shale as Bm-18

Base of AOKa

Bm-19 ss - massive BR gy badly weathered
med to c gr.

May 25, 1954

MOORE section

B-19
cont

Some shale chips & pebbles
in lowest part of unit.
probably about 15' thick
tends to slump down on
shale - some blocks contain
quartzite pebbles but could
be from a higher zone.

nearly flat bench developed
to the top of Bm-19