

Oklahoma + Tennessee

With Ross + Duto
1966

September 20

Left Washington in a downpour at 8:45 AM. Arrived in Okla. City 10:45 in clear weather. Went directly to Tourist court and found our car very near there. Car picked up and went out to University; spent rest of day with Tom Amussen & Charlie Harper. Dinner in evening with Harpers & Amussens.

Sept. 21

Spent part of morning at University with Carl Branson. Met Bob Faye who is going out with us. In late morning left for Ardmore. Settled in there, then went on to Rock Crossing. This place has been messed up by highway work and the creek backed over some of Nes outcrops. The bluff near the road is still fairly good.

Sept 22

Went over Highway 77 section. Joins with egl at base, 8' above it, first thin bed with Desmortis. Found Desmortis through most of the section. Anomalortis came a little higher but was fairly common through all of the Joins. Oil Creek boundary with joins not easy to see but seemed to be a sandy zone.

Oil Creek more calcarenite or calcirudite than joins. Anomalortis common throughout a large Orthisambonites in Oil Creek not far above contact. Tulobites seen from about middle to top of Oil Creek. Anomalortis seen to within 50' of the top. A Ctenodonta and occasional other clam near top.

Melish sand with fairly common modiolosoid pelecypods. Ateleasma (small), Psychoglyptus and Orthisambonites seen in lower 100 feet of Melish. Did not see the Dorythata. Small orthoids very common through most of Melish but not identifiable but they might be small Orthisambonites, Psychopleurella or possibly small Mimella.

Evening went to Murray Lake with
A. Giffham & Bob Fayet.

Sept. 23

Morning to Spring Creek to
see Portville section. Fern
found *Oxoplicia* common
in lower 10 feet of Poolville.
Fuscefera occurred in bottom
of Portville as well as top of
the Mountain

Afternoon went to Nels, $1\frac{1}{2}$ mi. W
to see Valcaunas in the
Julia Creek. Then went to $1\frac{3}{4}$ mi.
W of Central Church (Sulphur South
 $7\frac{1}{2}$ mi) to collect a glade surface
in Poolville

Went on to 1.8 mile S of
Sulphur for Mountain Lake
and Viola in small quarry.

Sept. 24

Drove from Ardmore to
south side of Memphis
where we arrived at 6:30

Sept. 25

En route to east Tennessee
visited a locality in Birdsong
1/2 northwest of Parsons. Went
to Blue Mound Glade in
afternoon and to Murfreesboro
for the night.

Sept. 26.

Left Murfreesboro & went to
Walter Hill to see Type Pierce.
Went S to near Mt. Carmel
for Lebanon. Then went
Marshall Knobs to see the
Ridley. Collected *Slyptortus*
about 20' up in Ridley &
Anastrolychna near the
top of the knob and near the
top of the Ridley.

Went to Readyville and saw
Cryptophagnum again in the
thick layer of calcarenite at
the west end of the cut.

Got to Cleveland at
7:30 P.M.

Sept. 27

Went from Cleveland to Hiwassee R. Found the road all changed and the bluffs cut way back. The section is revealed almost in its entirety. Unfortunately the Christiania beds have been completely covered. The cuts are so fresh that fossils do not show up.

At quarry 1 mile NE of Athens the lower Athens has numerous Apatomorpha, also ~~very~~ numerous Christiania. One large Atelelasma (complete) taken.

Went to see Lenoir 2 miles S of Philadelphia. Postnicellula seen in lower mudstones. Valcourea + Mimella common in lower part of quarry. Machurites common in upper part of Lenoir. Went on to Maryville and put Newman on plane for Washington.

Sept 28

visited Friendsville - found sections changed and very well picked.

Sept 29

Went from Marysville to Heiskell to see section there.

Found 10' of Tumber at section SE of Mt. Egar church.

In Heiskell section the 40 feet of beds above the lower 250' of the Moccasin are very fossiliferous. Bryozoans are abundant.

Wound up at Jaywell for night.

September 30

Went to Evans Ferry. A good section of Elway appears on the north slope of the hill bounding the north side of the loop cut off by the new road. Dinorthis holden is common. Below the Elway were dolomitic mudstones of the Blackford type but the

Moccasin
 ? Witten thickness was not determined. It does not appear to be very thick.
 60' Bowen
 225' Wardell
 90' Covered
 53'
 30' Benbolt
 115'
 175' Rockdell
 60' Hogskin
 55' Edson
 75'-100' Elway
 ? Marcell
 Knox

Out on the main road a superb section has been opened up by the new highway. The Knox is exposed on the north side of the gap produced by the old road. On the south side of the gap the section begins in the Lincolnshire (Edson). Dinorthis and Lower brytes appear in the lower part of the cut. The gap made by the old road represents the Elway. The north slope along that old road and the little stream is covered by blocky chert and numerous silicified Dinorthis holdeni. The Elway is estimated to be about 75' to 100'. The Edson is a shaly limestone with thick beds of dark cherty limestone. The shaly parts suggest passage to the Blackford type of facies. The Edson was estimated to be 55 feet. The Hogskin is estimated at 60 feet thick. It contains Plectoramara and Aligorhynchia.

Following the Hogskin is Rockdell,
a dark gray calcarenite, 175' thick,
very massive for the most part.

The Benbolt has a massive
calcarenite about 115' above the base
but is mostly nodular shaly limestone
bluish gray weathering yellow.
The Wardell-Benbolt boundary, if
any, is covered.

The Wardell is 225 feet of
thin-bedded and shaly limestone
with beds of yellow mudstone,
especially near the top. The
brown, red and yellow mudstone
separates the Wardell from the Witten.

The Witten is gray thin-bedded
limestone much conformed near
the middle. The section is capped
by Maecasin redbeds.

October 1

Rained hard all morning. Discussed sections until 10:30. Packed and sent off Ruben specimens.

Went to St. Clair to see Arline, Effna and Paperville. Also Whitesburg.

Went on to Mt. Hagan School on Hilton Rd for Benbolt. Marion overnight.

October 2

From Marion to Lexington which we reached at noon. Went west to Colliertown to see section from 2 to 3 miles east of Colliertown on the highway 251. The sequence along the highway is complicated by faulting and folding. The Colliertown fm. is on the hillside above a Texaco filling station. Much of the Colliertown is cobbles with many of the cobbles made up of masses of fossils. Found a *Belimurina* in the Colliertown.

October 3

From Lexington to see Whistle
Creek locality which is $2\frac{1}{4}$ miles
NW of Junction US 60 and US 11.
and about 100 yards SE of
bridge over Whistle Creek.

Went on to Harrisonburg
and then to Green Mount.
Road has been widened and
cut made better but rock is
fresh and collecting poor.
The Oranda beds at intersection
of 910 + 777 also has been
cut back and is much poorer
than it used to be.

Visited locality 0.3 mile E
of 617 on Co. 7812. Here there
is fairly good purple rock
in the Oranda