

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 Amstutz & Charlie Harper. Dinner in evening with Harpers & Amstutz.

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 come 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.

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

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

Sept. 23

Morning to Spring Creek to  
see Portville section. Fern  
found *Oxoplectra* common  
in lower 10 feet of Portville.  
*Fascifera* 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 Portville

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 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 &  
*Ancestorlynchea* near the  
top of the knob and near the  
top of the Ridley.

Went to Readyville and saw  
*Cryptophyllum* 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. Eggs 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 Joywell 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  
 ? Marcellin  
 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 modular 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 *Bellimurina* 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