Trip to Mo & Okla.


July 11.
Went north on 1471 to Joplin Ford. Then went down the Bluell Creek and followed road on S. west side of Bluell creek back to Atchison. Exposures of Keokuk appear in bluffs along creek. The hilly country on its west side. We found a good collecting place in a gulled road in NE 1/4 SW 1/4 26-26 N-32 W about 2 miles S and one mile east of Joplin Ford, Mo.
68-2  Large quarry in SW 1/4 T-25 N—
31 N about 1 3/4 miles N of
courthouse in Nezho. Can be
reached by leaving US 60 at
bend of road 3 1/4 mile N of Nezho.
Finesstone here medium gray, fine
to coarse grained, general massive
with bands, scattered bands of
eclay, which contains the fossils
that contain Acteolepis common
Ovatica c. Labraperus c. and
Pseudocynicus fairly common.

July 12
Went to Syphali pits about
1 1/4 miles N of Seneca, Missouri.
The locality in NW 1/4 NW 1/4 35—
25 N—34 W, 1/4 miles NW of
Seneca, the Seneca (7 1/2)°, Missouri.
Collected until about 2:30 PM.
Came back to Nezho through
Wels and Kansas.

68-3

68-4  Visited roadside on branch of
Jones Creek, SW corner of SE 1/4
34—28 N—31 W, NE of Fidelity.
Here we saw Megalurus
magnus.
Went on to quarries at
Carthage (Marble Co.) about one mile N of the city on road just east of US 71. Collecting very good.

68-5

68-6  Acme on section line about ¼ mile S of NE ccr 15-25N-29W 2 1/4 miles ENE of Newtonia. About 10' massive granular limestones followed by granular limestones in thin beds with shaly partings 6-10' collecting poor.

July 14.

Left Neosho about 9:00 AM. Went S on US 71 to Anderson, then on Mo. 59 to Noel, and from there west to Vermont. Here we arrived about 12:30.

68-7

8th Joe limestone in long cut on Mo. 59, on N limit of North Noel, just one mile N of junction Mo 59 and 90 in Noel, Missouri. 8th Joe, a bluff of 30 feet of limestone overlying 12 to 20 feet of Chattanooga shale. The 8th Joe reminded me of the Laclede Valley in color, texture but was harder and more compact and with few fossils.
68-8  Low, long hill on south side Frisco R.R. showing about 15'-20' of flaky, crumbling shale capped by thin bedded limestone. The latter disintegrates and sheds slabs and loose fossils over the surface. Locality in Fayetteville Shale, NE 1/4 11-25N-21E, 8 miles E and 3 miles N of Vinita, Craig County, Oklahoma.


July 15th

68-10  Vinita, Okla

Fayetteville, NE 1/4 11-25N-21E, 6 1/2 miles E and 2 1/2 miles N of Vinita, Craig County, Oklahoma. Low cliff with washes in shaly Fayetteville Conglomerate, Oolite, common.

68-12  Road cut on OKla Hy 87, 1/4 mile South of junction with US 60. Mostly durable shale with thin band of l.c. about 5' up. Chert and dolomitic above the thin l.c. is more blocky
shale 8' 1st capped by about one
foot of limestone containing
dolomitic and Orthodotes. Outcrop
in field about 0.15 mile W of road
and 100 yards E of road. Dec 22-
25N-21E.

68-13  Large pit in hard massive
crystalline calcarenite, white to light
gray with short bands up to 8".
Fossil Spinothyras and large
produced seed. Fossil very
scarce. Lithologically unlike
Fayetteville and is probably an
indian. of Borne.

68-14  SW cor. 32-25N-21E. About 3 mi E
and 2 miles S of Vinita. A variety
of limestones from a water-filled
pit. Heliophragnus common. Lower
Fayetteville.
July 16

Spent entire day east of Adair 68-15 at locality in N.E. 1/4 SE. 1/4 22N-20E, 3 1/2 miles E and 2 1/4 miles south of Adair, Mayes County. Here I saw hill like washes on the east side. Dark shale about 5' think is followed by a foot or two of limestone above. The ls. is more shale, 5376' followed by another limestone. The top limestone abounds in Dactinos. Collecting was just as good this time as when I was here with Bob Main in 1955.

July 17

68-16 MacCunda locality - Some uncertainty exists as to the exact locality because the road and Salina Creek are in the wrong position. The road is actually north of the Creek which puts the locality in the SW 1/4 SE 1/4 11-21N-21E not in section 15 as MacCunda gives it. The best description of the location is on Salina - Kenwood Road, 2 1/2 miles west of Kenwood, Salina Twp., Mayes County, Oklahoma.
July 18

Adair & Spavinaw

68-17
Locality with abundant Austidia
This is 1.45 miles west of the
SW corner sec. 32-23 N - 20 E
and about 0.4 mile north of the
road, about the NW 1/4 SE 1/4 31-23 N -
20 E. Here are Avonia, Austidia,
and reticulinae common. Mayes
County.

68-18
...a small Butte 1/4 mile
E of 68-17, Up. Fayetteville,
NE 1/4 SE 1/4 31-23 N - 20 E. Very
poorly fossiliferous

Spavinaw-

68-19
Warsaw efficient on the east side
of Oklahoma by 20, 1.2 miles by
road S of Spavinaw Creek bridge
and 2.3 miles S of the center of
Spavinaw by road. The locality is
on the steep hill rising from the
river and is at about the
crest of the hill. Probably SW
1/4 15-22 N - 21 E although the sec., Tp
and R. are somewhat uncertain.
Collecting not good but Spini-fer
of large bigna fairly common.

5 1/2 line between secs. 15+16, on
east side road (Hy 20).
July 19
Moved from Vinita to Muskogee
Reached Muskogee at lunch time
Went out to Bragg's Mtn. section
and worked on Fayetteville but
were rained out.
Fayetteville (lower), about SE 1/4 NW 1/4
26-15N-20E, on Oklahoma No. 10,
just above base of hill
about 1/4 mile above top of big loop of Bragg's Mtn., Muskogee Co., Okla.

July 20.
Spent day along Oklahoma No. 10
Center Ndihe SW 1/4 NW 1/4 36-13N-20E
on branch of Cedar Creek, one
mile NE of Cedar Creek School,
about 3 miles NW of Store,
Webbers Falls, Okla.

68-22 Specimen in sandstone at bend
of road on top of hill overlooking
Greenleaf Ranch on road about 1 mile
N of SW cor 11-13N-20E, about 0.6
mile SW of bridge over Greenleaf
Creek, Webbers Falls, Okla.

68-23 Upper Fayetteville, on Okla. 10,
at south end big loop of big
About NW¼ SW¼ 21-15N-20E on east side road in big cut,
Hulbert O., Okla.

68-24 Morefield shale formation, bluff & field above bluff, on west side road on 5 side bridge
NE¼ SE¼ 19-15N-20E,
Hulbert O., Oklahoma, 0.6 mile S. of Okla. Hy. 10.
Shale Morefield with abundant products.

July 21.

68-25 Along branch of Bayou Manard in Creek bed, NW¼ NE¼ 18-15N-21E,
One mile S. of US 63, between Crossland Hill and Red Berry Mt.,
Cherokee Co., Oklahoma.
68-25A - Bed with spring common.
68-25B - Bed with small
Delafond - like products
68-25C - Bed with fibrous chert
68-25D - Bed with abundant limestone products
68-25E - Lower bed with Morefield?
68-25F Upper " "
68-26

Qualls
July 27
East on US 62 to Burnt Cabin Road, south on B.C. Road past Goliad Store to Qualls. Locality on bank of a stream in a small clearing 1/12 mile N and 1/2 miles east of Qualls, about 0.4 miles east of SW corner sec. 29-15 N-22 E. Collecting on south side of road. Listed as Hindsdale but may be basal Fayetteville. Good egl with chert boulders in stream bed. Possible Hayes collecting locality on NE side of big loop at center E line 29-15 N-21 E.

68-27

Travel Left from Muskogee to Sedalia. Good most of day.

July 24

Went to Sweeney Quarry which is 600 paces NE Chiloco, RR track at road crossing in SE cor. SW 4 SE 1/4 4-46 N-19 W, about 2 miles NE of Clifton City, Cooper County, Missouri.
July 25

Grove - Drive

roads NW of station and
saw several localities with
good appearance but few fossils.
Collected a few specimens in
stream NW 1/4 NE 1/4 29-50N-
12 W, 3/2 miles NW of Grove
Station, Groveton (J5") O, Mo.

After collected in quarry
1/4 mile south of Edgley,
SW cor SW 1/4 NE 1/4 3-46N-13 W,
Columbia O, Missouri. Just
South of quarry a road goes up
the second opening and mine
in the limestone. Just of top
of road we collected Clintonace
fossils.

July 26.

Old US 65, 5 miles N of
Joplin, Mo.

3.9 miles N of junction with highway
H.H.

68-31
Called Joplin by Bowser - loose
fossils & fossils in clinket, on
both sides of road one mile
E of the junction of MO 57 and US
65, and 13 miles West of Cole.
Camp, MO, adjoining corners of sections 18, 29, 32, 33 - 43N - 81W, Benton County, Missouri.

68-32  Probably Kaysinger Bluff of Movie (called Kiesinger). South end of bluff forming a sharp point where overlook of Kaysinger Dam is located northwest of Warsaw, Benton Co, Missouri. Check topographic map.

68-33  South end of bluff with overlook of Kaysinger Dam but 30 or more feet below the preceding.

July 27

Left Sedalia arrived Pella cla about 1:30 PM, went S of Pella and collected Pella beds from old quarry on line between secs. 34 and 35 half mile N of SE cor 34, 76 N-18W, about 4 miles south of south side of Pella, Iowa.
68-35  Large pit in Pella beds  
NW1/4 SE1/4 22-76-18W  
about 2 miles S of south side of Pella, Iowa  
July 28

68-36  Sergeant's Bros. Quarry, Pella  
Talbot shale with Trilobites  
about 1 mile west Pella, Iowa

68-37, 38, 39  New York, just E of Middle River  
2 miles E of Stangel, N of Hy.  
68-40  Cherryvale shale (?check) 0.8 mile  
N of Hogback bridge (covered) over North River,  
July 29

68-41  On E side US 169, just  
south of south line off  
Winterfelt, Madison Co., Iowa  
Reddell Co.  
Fossil lines.

68-42  Brennan Co., NE1/4 27- 
23 N-38 W, 1 mile NW of  
Ettelet, Montgomery Co., do  
Entrapment = 68-42
68-43  Leafy products beds.

68-44  Rice-grape.  Ny. 48.  About 7-2
miles N. of Oak I.  turn E at
transformer station on paved road
from junction with US 34.
68-45  0.8 mile S of US 34 in Plattsmouth.
  Turn E, follow road 3.3 miles
  Wellsville beds.

68-46  Leafy products beds same as 68-45

68-47  Bed same as 68-45

68-48  Jones Point, Union, Nebraska
  on Mo. R.

68-49  From a quarry on the Missouri
  River about six miles south
  of Plattsmouth, Nebraska.
  Donated by Amel Priest.

68-50  Paint Creek, Columbia,
  Illinois. Presented by
  Amel Priest.
July 30

68-51  On clawa. 220, 1/2 mile west of Middle Amana, Iowa. Middle Amana.


68-54  Roadside 1/4 mile S of Ia 283 on Cedar CV-71, Benton Co. 1/2 mile E of E end of Brandon, Ia.

68-55  Independence - By 1 mile N of east edge of Brandon (Ia 283), Ia.

July 31

68-56  At Vinton.

68-57  Spurifer beds.

68-58  Reusselandia beds.

68-59  Topmost beds.
August 1
Sent off 4 bundles from Independence, left
Independence & visited with
Furman & Glenister at Iowa
City, where we obtained some
maps. Visited locality in
Anaquatcon, Colom member
Road cut NW 1/4 28 - 35 N - 8 W, 0.15
mile W of bridge over Pine Creek,
about 2 1/2 miles by road NW
of Anaquatcon Buchanan Co., Iowa
Went to Burlington.

August 2

68-59

68-60  Stan Cave, SE 1/4 NW 1/4 19 - 70 N - 2 W,
3 miles N of west end of
Burlington, Des Moines County
drawn. Lowest beds collected, are
Prospect still white stone = 68-60

68-61  Stanse cave formation at
Stans Cave

68-62  Wassonville Member at
Stans Cave.
68-63 English River Shale, Yellow-
Spurike Creek Subtrary, West of 
Center line Sec. 34 Sec. 35 - 71N-2W, Des Moines Co, 
Kingston 0, Iowa.

68-64 Same locality as above but 
Stans Cove formation (oolite)

68-65 Weaver Quarry, N.E. Sec. 26-
71N-2W, About 3 miles N of 
Kingston just SW of junction 
on Oakville of Cloma Hy 99 and Edinburg Hy X
Cedar Fork 2 miles of Burlington 
Across Bridge At junction cemetery. 
August 3

68-66 Kasey Quarry, SE 1/4 1, 71N-
4W, Des Moines Co. 2 1/2 miles 
Sand 4 1/2 miles W of Medapolis, Cedar 
Creek Forks Weldon.

68-67 Wassonville Munc. of Hampton
Fr. Kasey Quarry as above 
In afternoon returned to 
Weaver quarry.
August 4

68-68 Old Rgy SEL 4, SE 1/4 9 - 69N - 4 W, about 3 miles NW of Augusta, on Skunk Creek Rd. Reckah
68-69 Rides Rgy 1/2 mile SE of Augusta, da. SEL 1/4 NW 1/4 25 - 69N - 4 W, Lee Co; Burlington, mostly Cedar Fork

August 5

68-70 Rgy 0.8 mile N of Ely, Iowa
68-71 Old Ely on west edge of Colton, Iowa

August 6

68-72 Dundee Quarry 2 1/2 mi SW of Ely, Iowa
68-73 Silica, Ohio

Stopped at Quarry for 2 1/2 hr

August 7

Ely, Iowa; home reached at