

(Travis County)



Navarro group
Kemp fm.

13. Bluff on Colorado River at Webberville, Travis County, Tex. L. W. Stephenson. U.S.G.S. 7601.
14. Bluff on Colorado River at Webberville, Travis County, Tex. T. W. Vaughan and C. H. Stuver. U.S.G.S. 1642.
15. Bank of Colorado River below old ferry at Webberville, Travis County, Tex. J. A. Gardner. U.S.G.S. 13910.
16. Colorado River at ferry at Webberville, Travis County, Tex. U.S.G.S. 7602. (PP. 206)

Type locality for --

GENOTYPE

- *Ammobaculoides navarroensis Plummer, (Amer. Mid. Nat., vol. 13, p. 87)
1932
- *Dardia magna Alexander (T.Pal., vol. 1, p. 32, pl. 6, figs. 7, 8, 1927.)

Plummer Sta. 987)

Austin group

Near top of chalk section (probably Burditt marl), about 100 feet north of bridge over Little Walnut Creek on old Austin-Manor road, 3.9 miles by road from the corner of East Ave. and Manor Road in Austin. A soft yellowish layer, rich in Foraminifera, ostracodes, Inoceramus prisms, bryozoa, and echinoid and shell fragments, has furnished the type specimens for three species. (Map location, Univ. Texas Bull. 3101, p.120, fig.12, 1931.)

226-T-4
(Travis County)

Type locality for--

- ✗ Vaginulina regina Plummer (Univ. Texas Bull. 3101, p.162, pl.10, fig.22, 1931)
- ✗ Manorella proteus Grice (Jour. Paleont., vol.22, p.222, text fig.1, 1948)
- ✗ Monoceratina semiornata Alexander (Jour. Paleont., vol.8, p.63, pl.8, fig.1, 1934)

Travis County

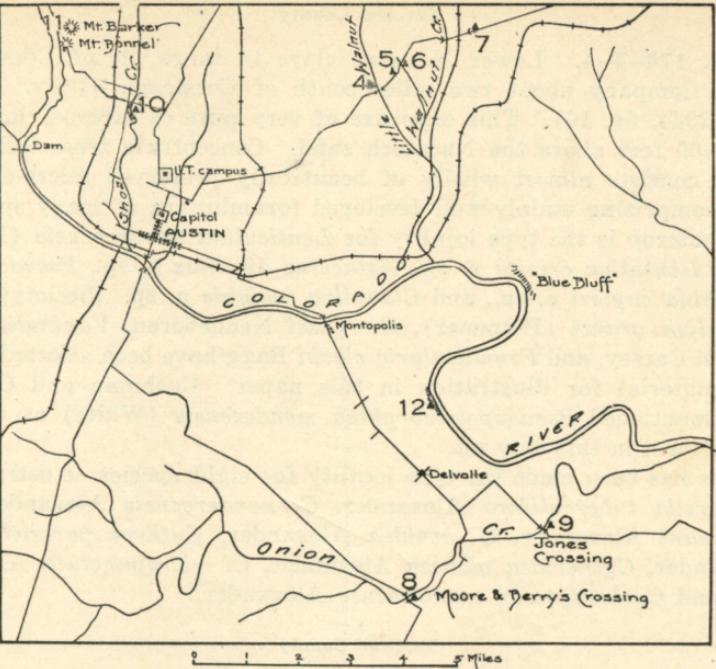


Fig. 12. Map of Austin area showing the Travis County outcrops,
Sta. 226-T-4 to Sta. 226-T-12, from which specimens have been
figured.

Miss. Texas Bull. 3101

Taylor group

Sta. 226-T-5. Lowermost Taylor formation in ditch on Austin-Manor highway .4 of a mile by road east of the bridge over Little Walnut Creek (fig. 1). Very fresh, compact, fossiliferous clay about 50 feet above the top of the Austin chalk is exposed and yields an abundance of excellently preserved Taylor species. Specimens of *Kyphopyxa christneri* (Carsey) are figured from this outcrop.

226-T-5
(Travis County)

(Univ. Texas Bull. 3101, p.120, 1931)

(Plummer Coll. 3102.1021)

Taylor group

Sta. 226-T-6. Lower Taylor clay about 50 feet above the Austin chalk in low banks of a small creek on the Austin-Manor highway .6 of a mile by road northeast of the bridge over Little Walnut Creek (fig. 12). The typical compact, unctuous clays of this formation are rich in well-preserved tests of many species of micro-organisms. *Kyphopyxa christneri* (Carsey) is abundant here, and figures have been made from tests selected from this exposure.

226-T-6
(Travis County)

(Univ. Texas Bull. 3101, p.121, 1931.)

(Rummel Co. I. S.Wa. 1022)

Lower Taylor

226-T-7

Grey and yellowish grey, calcareous, unctuous clay exposed throughout a vertical section of about 60 feet in roadside ditches and gullies below the Pecan Gap chalk (at the type locality for Baculites taylorensis Adkins) on the old Austin-Manor highway 0.3 of a mile east of the M. K. & T. RR. that parallels Walnut Creek, and about 6 miles east-northeast of Austin.

17 Shown in
guide book

Type locality for--

- ✗ Gaudryina (Pseudogaudryina) ellisorae Cushman (C. Spec. Publ. 6, p.13, pl.2, fig.12, 1936)
- ✗ Frankeina rugosissima Alexander & Smith (Jour. Paleont., vol.6, p.311, pl.47, figs.12, 13, 1932)
- ✗ Cytheropteron (Cytheropteron) furcalatum Alexander (Jour. Palennt., vol.7, p.194, pl.27, fig.7, 1933)

Taylor group
(upper)

Moore and Berry's Crossing at Onion Creek, $8\frac{1}{2}$ miles (airline) southeast of the Capitol in Austin. Dark, dense, fossiliferous clays are exposed from the bridge downstream for about 200 feet, and these probably furnished the material for Mrs. Carsey's study. The material used by Mrs. Plummer came from softer clay in a deep ditch exposure about 100 feet north of the bridge and in the left bank of Onion Creek; this has now been washed away. (Map locality, Univ. Texas Bull. 3101, p.120, fig.12, 1931.)

226-T-8

(Travis County)

Type locality for--

- ✗ Frondicularia projecta Carsey (Univ. Texas Bull. 2612, p.41, pl.6, fig.5, 1926)
- ✗ Globigerina rosetta Carsey (idem, p.44, pl.5, fig.3); typical Globotruncana.
- ✗ Anomalina taylorensis Carsey (idem, p.47, pl.6, fig.1)
- ✗ Lagena incidenta Carsey (idem, p.30, pl.4, fig.12); holotype is obviously not a Lagena, probably Ramulina.
- { ✗ Buliminella compressa Carsey (not Bailey, 1851) (idem, p.29, pl.4, fig.14)=Buliminella carseyae Plummer, 1931.
- ✗ Buliminella carseyae Plummer (Univ. Texas Bull. 3101, p.179, pl.8, fig.9, 1931)
- ✗ Globotruncana fornicata Plummer (idem, p.198, pl.13, figs.4-6)
- ✗ Argilloecia taylorensis Alexander (J.P., vol.9, p.356, text fig.1, 1935)
- ✗ Cytherura taylorensis Alexander (J.P., vol.10, p.691, pl.93, fig.2, 1936)

Navarro group
Corsicana fm.

Steep, 80-foot slope on right bank of Onion Creek, (Travis County)
about 0.1 mile east of bridge (formerly known as
"Jones Crossing") on Austin-Bastrop highway. These
very compact, light-grey, highly calcareous clays,
rich in Exogyra costata Say and Crenella serica
yield an abundance of Foraminifera and ostracodes,
typical of this formation in the Navarro group in
Texas. (Map location, Univ. Texas Bull. 3101, p.120,
fig.12, 1931; G.S.A., 53rd Ann. Meeting, Guidebook to Excursions, p.69, Stop 1, 1940.)

GSA 53 Ann
Meeting
Guidebook to
Excursions
P.69, Stop 1,
1940.

Type locality for--

- ✓ Haplophragmoides diagonis Carsey (Univ. Texas Bull. 2612, p.22, pl.3, fig.1, 1926)
- ✓ Textularia semicomplanata Carsey (idem, p.25, pl.3, fig.4); typical Spiroplectammina.
- ✓ Textularia costata Carsey (idem, p.26, pl.1, fig.4); typical Gumbelina.
- ✓ Bolivina plaita Carsey (idem, p.26, pl.4, fig.2); typical Loxostomum.
- ✓ Gaudryina bulletta Carsey (idem, p.28, pl.4, fig.4); GENOTYPE for Dorothia.
- ✓ Nodosaria larva Carsey (idem, p.31, pl.2, fig.2)
- ✓ Cristellaria lineara Carsey (not C. linearis d'Orbigny) (idem, p.36, pl.2, fig.3) =
Marginulina plummerae Cushman, 1937.
- ✓ Vaginulina webbervillensis Carsey (idem, p.39, pl.2, fig.7)
- ✓ Vaginulina simondsi Carsey (idem, p.40, pl.2, fig.4)
- ✓ Discorbis correcta Carsey (idem, p.45, pl.3, fig.5)
- ✓ Anomalina pseudopapillosa Carsey (idem, p.47, pl.1, fig.6)
- ✓ Rotalia cretacea Carsey (idem, p.48, pl.5, fig.1)
- ✓ Quinqueloculina rotunda Carsey (idem, p.50, pl.1, fig.3), not Roemer, 1838.

(See card #2)

- ✗ Nonionella robusta Plummer (Univ. Texas Bull. 3101, p.175,
pl.14, fig.12, 1931)
- ✗ Anomalina pinguis Jennings (Bull. Amer. Pal., vol.23, No.78, p.37,
pl.5, fig.1, 1936); new name for Anomalina grosserugosa Plummer, 1931,
(not Gumbel, 1868).
- ✗ Marginulina curvatura Cushman (C.C., vol.14, p.34, pl.5, figs.13,14, 1938)
- ✗ Dentalina delicatula Cushman (C.C., vol.14, p.40, pl.6, figs.19,20, 1938)
- ✗ Cytherura cretacea Alexander (J.P., vol.10, p.691, pl.93, figs.1518, 1936)
- ✗ Loxoconcha cretacea Alexander (J.P., vol.10, p.693, pl.93, figs.5, 7, 1936)

Navarro group
Corsicana marl

Sta. 226-T-9. Basal Navarro strata exposed in a steep 80-foot slope on the right bank of Onion Creek just east of the bridge (known as Jones' Crossing) on the Austin-Bastrop highway (fig. 12). These compact, dark clays, rich in shells of *Exogyra costata* Say, yield an abundance of foraminifera and ostracods typical of this formation in Texas. Twenty-seven species of foraminifera have been recorded previously from this outcrop, (Univ. Texas Bull. 2612) described as "Navarro near Delvalle on Onion Creek." This is the type locality for *Trochammina diagonis* (Carsey), *Spiroplectammina semicomplanata* (Carsey), *Gümbelina costata* (Carsey) [= *G. excolata* Cushman], *Loxostoma plaitum* (Carsey), *Dorothia bulletta* (Carsey), *Nodosaria larva* Carsey [= *N. radicula* (Linné)], *Vaginulina webber-villensis* Carsey, *V. simondsi* Carsey, *Discorbis correcta* Carsey, *Anomalina pseudopapillosa* Carsey, *Gyroidina cretacea* Carsey [= *G. depressa* (Alth)], and *Nonionella robusta* n. sp. These strata have

furnished plesiotypes of *Dentalina obliqua* (Linné), *Guttulina problema* d'Orbigny, *Bulimina pupoides* d'Orbigny, *Uvigerina selegi* Cushman, *Globigerina rugosa* Plummer, *Nodosaria radicula* (Linné), *Lenticulina navarroensis* (Plummer), *Lagena hispida* Reuss, *Frondicularia clarki* Bagg, *Gümbelina excolata* Cushman, *Gyroidina depressa* (Alth), *Anomalina grosserugosa* (Gümbel), *Gaudryina rugosa* d'Orbigny, and *Hemcristellaria ensis* (Reuss). Specimens of a species of *Pseudoglandulina* have been figured from this exposure.

It is interesting to note that *Siphonina prima* Plummer and *Ceratobulimina cretacea* Cushman and Harris are well developed at this locality, the lowest stratigraphic position known to the present author for these species.

(Univ. Texas Bull. 3101, p.121, 1931)

- 35 feet above base of bluff on Onion Creek $\frac{1}{4}$ miles west of Garfield, Travis County, Tex. L. W. Stephenson.
 About 17 feet above base of bluff on Onion Creek, $\frac{1}{4}$ miles west of Garfield, Travis County, Tex. L. W. Stephenson.
- 30 feet above base of bluff on Onion Creek $\frac{1}{4}$ mile below Bastrop road crossing and $2\frac{1}{2}$ miles west of old Garfield, Travis County, Tex. L. W. Stephenson.
 40 feet above base of bluff on Onion Creek $\frac{1}{4}$ mile below Bastrop road crossing and $2\frac{1}{2}$ miles west of old Garfield, Travis County, Tex. L. W. Stephenson.
 23 feet above base of bluff on Onion Creek $\frac{1}{4}$ mile below Bastrop road crossing and $2\frac{1}{2}$ miles west of old Garfield, Travis County, Tex. L. W. Stephenson.
 18 feet above base of bluff on Onion Creek $\frac{1}{4}$ mile below Bastrop road crossing and $2\frac{1}{2}$ miles west of old Garfield, Travis County, Tex. L. W. Stephenson.
 13 feet above base of bluff on Onion Creek $\frac{1}{4}$ mile below Bastrop road crossing and $2\frac{1}{2}$ miles west of old Garfield, Travis County, Tex. L. W. Stephenson.
 2 feet above base of bluff on Onion Creek $\frac{1}{4}$ mile below Bastrop road crossing and $2\frac{1}{2}$ miles west of old Garfield, Travis County, Tex. L. W. Stephenson.
 Jones crossing on Onion Creek just east of Austin-Bastrop Highway and 9 miles in a straight line southeast of Capitol in Austin, Travis County, Tex. H. J. Plummer. Station 226-T-9.

Cerithidea Carey, U.T. Bull. 2612, p. 26, pl. 1, fig. 4, 1926.

Type locality for —

- 3-4 ✓ *Spiralifera uncinata* semi-complanata (Carey) - U.T. Bull. 26²⁵
 4-4 ✓ *Gaudryina bulletta* Carey (U.T. Bull. 26²⁸)
 3-1 ✓ *Haplospira moniloides* diaconi Carey (U.T. Bull. 26²²)
 5-13, 14 ✓ *Marginalia curvatura* Cushing (C.C. vol. 14, 1938, p. 34)
 6-19, 20 ✓ *Dentulaia delicatula* Cushing (C.C. vol. 14, 1938, p. 40)
 2-4 ✓ *Taqinulina simondsi* Carey (U.T. Bull. 26⁴²)
 2-7 ✓ *Taqinulina webberensis* Carey (U.T. Bull. 26¹²)
 11-12 ✓ *Monionella robusta* Plummer (U.T. Bull. 31¹⁷)
 4-2 ✓ *Bolinia glabra* Carey (U.T. Bull. 26²⁶)
 5-1 ✓ *Rotalia crevacea* Carey (U.T. Bull. 26⁴³)
 1-6 ✓ *Anomalia pseudopapillosa* Carey (U.T. Bull. 26¹²)
 5-1936 ✓ *Anomalia pinguis* Jennings (Bull. A.P.S., vol. 23, 1936, p. 78)
 3-5 ✓ *Discorbis correcta* Carey (U.T. Bull. 26⁴⁵)
 ✓ *Cytherura crevacea* Alexander (T.P., vol. 10, p. 691, pl. 93, figs. 1, 13, 1936)
 — *Lixoconcha crevacea* Alexander (T.P., vol. 10, p. 693, pl. 93, figs. 5, 7, 1936)
 ✓ *Nodosaria parva* Carey, idem, p. 31, pl. 2, fig. 2, 1931

✓ *Cerithidea Carey* (not *Ciliatina d'Ono*),
 11 (Bull. 2612, p. 26, 2-3, 1926)

Quincula undulatula Carey (not *Rosacea*)
 Bull. 2612, p. 50, pl. 1, fig. 3, 1926.

Comanchean

Washita group

Grayson fm. (Del Rio)

Sta. 226-T-10. Del Rio formation on right bank of Shoal Creek in a steep slope just south of the Thirty-fourth Street bridge in Austin (fig. 12). About 40 feet of the upper part of the formation capped by Buda limestone are exposed on the upthrow side of a small fault that cuts across the face of the bank. The dark, compact, gypsiferous clays are rich in micro-organisms typical of this formation in central Texas. (Map location: Univ. Texas Bull. 3101, p.120, fig.12, 1931.)

226-T-10

(Travis County)

Type locality for--

- ✗ Textularia washitensis Carsey (Univ. Texas Bull. 2612, p.24, pl.7, fig.6, July, 1926)
- ✗ Textularia rioensis Carsey (idem, p.24, pl.7, fig.2)
- ✗ Nodosaria fragilis Carsey (idem, p.35, pl.4, fig.1)
- ✗ Cristellaria washitensis Carsey (idem, p.38, pl.7, fig.9)
- ✗ Globigerina cretacea var. del rioensis Carsey (idem, p.43, no fig.)
- ✗ Globigerina washitensis Carsey (idem, p.44, pl.7, fig.10, pl.8, fig.2)
- ✗ Anomalina petita Carsey (idem, p.48, pl.7, fig.3; illustration seemingly in error, as it appears to be a Lenticulina; type lost; from descriptions this species appears to be Anomalina plummerae Tappan, from same formation, which therefore becomes a synonym.)
- ✗ Gaudryinella delrioensis Plummer, GENOTYPE (Amer. Midl. Nat., vol.12, pp.341, 342, text fig.1, 1931)
- ✗ Globorotalia delrioensis Plummer (Univ. Texas Bull. 3101, p.199, pl.13, fig.2, 1931)

Walnut fm.

Sta. 226-T-11. Walnut formation near top of Mt. Barker three and one-half mile northwest of the capitol in Austin (fig. 12). This is the type locality for Orbitolina walnutensis Carsey. The yellowish clays of this outcrop are rich in ostracods and foraminifera, of which the following are frequent: *Ammobaculites goodlandensis* Cushman and Alexander, *A. cretacea* Cushman and Alexander, *Vaginulina intumescens* Reuss, *Choffatella* sp., *Flabellammina alexanderi* Cushman, and *Cyclammina* sp.

226-T-11
(Travis County)

(Univ. Texas Bull. 3101, p.122, 1931)

Type locality for--

- × Orbitolina walnutensis Carsey (Univ. Texas Bull. 2612, p.23, pl.7, fig.11, pl.8, fig.3, 1926).
- × Coskinolina adkinsi Barker (J.P., vol.18, p.206, pl.35, figs.1-4, 1944); ^{syw.}
syn. of Coskinolinoides texanus Keijzer, 194
- × Barkerina barkerensis Frizzell & Schwartz, GENOTYPE (Bull. Univ. Mo. Sch. Mines & Met., Tech. ser., no.76, p.6, pl.1, figs.106, 1950)

numer Coll. Sta. 1057

Taylor group

Sta. 226-T-12. Taylor formation in 40-foot bluff on right bank of Colorado River northeast of Delvalle on Anderson farm (fig. 12). The three-chambered test of *Dentalina raristriata* (Chapman), contributed by Robert Cuyler and herein figured, has come from this outcrop.

226-T-12
(Travis County)

(Univ. Texas Bull. 3101, p.122, 1931)

(Ranney Coll. Sta. -)

Midway group
Kincaid fm.

226-T-18
(Travis County)

Road cut on south side of Wilbarger Creek about 2 miles southwest of Littig (Bastrop quadrangle, about where the 500-foot contour cuts the road). Along this exposure a fault trends diagonally across the ditch and both Navarro and Midway strata outcrop. The soft, yellowish, oxidized clay extending to the top of the slope yields a true basal Midway assemblage of species.

(Sta. 61, Univ. Texas Bull. 2644, p. 58, 1927)

Plummer Coll. SVA. 408-G

Navarro group
Corsicana fm.

226-T-19

(Travis County)

34. Gully in west-facing slope of Cottonwood Creek Valley
 $\frac{1}{4}$ mile west of Kimbro and 2 miles south of Manda,
Travis County, Tex. L. W. Stephenson. U.S.G.S.
14129. (P.P. 206)

(Destroyed by road grader.)

Type locality for--

1933 6-10 x ✓ Dorothia glabrata Cushman (C.C., vol.9, p.56)

1938 11-4 x ✓ Pulvinulinella glabrata Cushman (C.C., vol.14, p.66)

dofarella =

Brunner Sta 1201

Navarro group
Kemp fm.

226-T-20

(Travis County)

17.65 to 73 feet in Tom Thrasher's well, on road from Bastrop
to Delvalle $\frac{3}{4}$ mile from Old Garfield, Travis County,
Tex. T. W. Vaughan. U.S.G.S. 1641. (P.P. 206)



Type locality for--

15-23, 27) Massalina texensis Cushman (C.C., vol.13, p.100)

Taylor group
(Upper part)

149. From 13½ to 15 feet above water level, left bank of Onion Creek, just above road crossing 0.75 mile south-southeast of Delvalle, Travis County, Tex. L. W. Stephen-son and H. B. Stenzel.

145. Bluff of creek 200 feet southeast of concrete bridge where Pierce's lane crosses stream, southeast of Delvalle, Travis County, Tex. C. I. Alexander.

(P.P. 206)

Baker's Crossing

226-T-21
(Travis County)

Type locality for--

13-19, 20, 37 X Marginulina pseudomarcki Cushman (C.C., vol. 13, p. 94)

Summer 1975

Midway gr.
Kincaid fm.

226-T-23

(Travis County)

Deep ditch on west side of county-line road,
at point about 0.5 mi. N.E. of its junction
with old Austin-Elgin highway.

Type locality for —

33-9 Cyperidea ruginosa Alexander (J. Pal., vol. 8, p. 224, '34)

Rummel Stn. 1025

Walnut fm.

Bank on south side of Austin-Marshall Ford
Dam road, 3.7 miles by road west of crossing
of Bull Creek.

226-T-24

(Travis County)

Type locality for--

p.383, 1932

pl. 2, fig. 12 - x Ellipsoglandulina carseyi Silvestri (Mem. Pont. Accad. Sci. Lincei, vol. 16,
Coskinolinoides texanus Keijzer (Nederl. Akad. Wetensch., Proc.,
vol. 45, no. 10, pp. 1016, 1017, 1942)

text fig.

Notes: With A.C.Wright of Shell Co., Roogeveen attended the field trip,
Feb. 13, 1937, which was under the leadership of Whitney. Wright reports
that they were on the Marshall Ford Dam road and north of Colorado River
and he^s definite that Roogeveen collected Walnut from localities 3 and 4
of the field guide.

A conference with Whitney (Jan, 1946) reveals that the Walnut localities
visited by the group in Feb. 1937, were the Borrow Pit (Plummer Sta. 1092) and
marl exposures 3/4 mile beyond Four Points, a small business community on top
of the Jollyville Plateau. One of these must be the type locality for Coskinolin-
oides texanus, and just which one can perhaps never be ascertained.

(Plummer Sta. 1092)

Grayson fm.
(Del Rio)

226-T-34

High east bank of Barton Creek, ^{immediately} south side of ~~the~~ morning of (Travis County)
Barton Creek road, and rising above a secondary
road that parallels Barton Creek on the east,
south Austin. (HTL-94, in Peck, 1943.)

H+T. Loc.

J.P., vol. 17, p. 458,

Type locality for--

* Roveacrinus euglypheus Peck, J.P., vol. 17, p. 469, pl. 72, figs. 18-23, 1943

Comanchean
Fredericksburg
Edwards fm.

"Edwards on shore of Lake Aystin".

226-T-53

(Travis County)

Type locality for --

x Ramulina edwardsensis Carsey (Univ. Texas Bull. 2612,
pl.43, pl.6, fig.8, 1926.

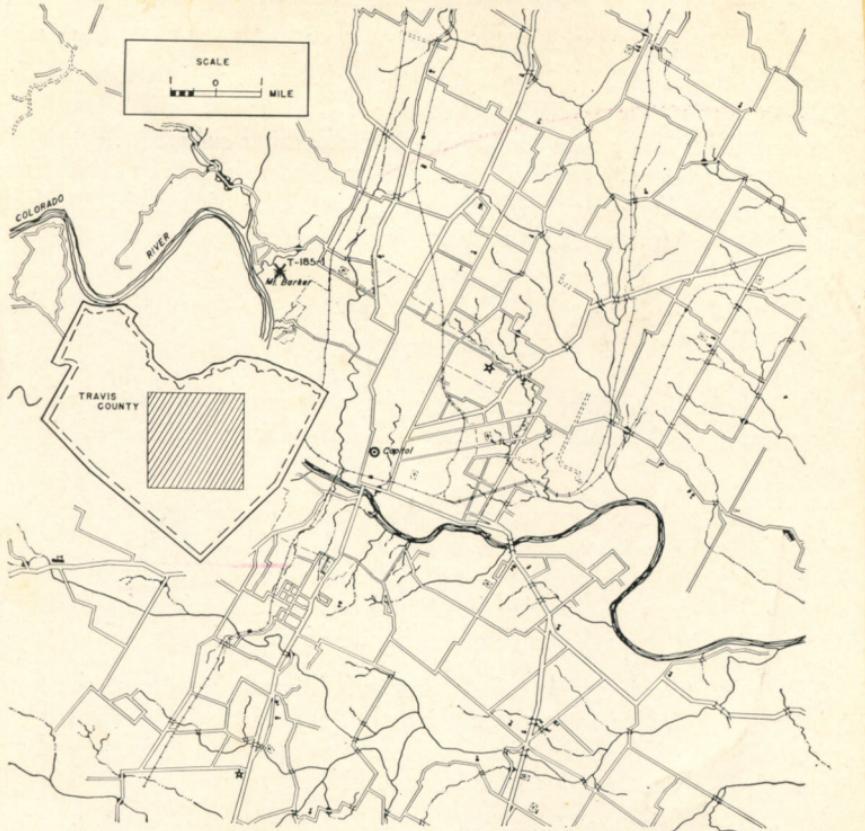


Fig. 12. Sketch map of a portion of Travis County showing the location of station T-185-1.

TRAVIS COUNTY (226-T-)

Sta. T-185-1 (Fig. 12).—Upper Glen Rose, entire Walnut, and basal Comanche Peak in the road cuts through and hillside slopes of the south side of Mount Barker, about 3.5 miles (airline) northwest of the capitol building in Austin. This is the type locality for *Dictyoconus walnutensis* (Carsey) and *Coskinolina adkinsi* Barker. Paratypes of *Ammobaculites laevigata*, n. sp., are illustrated (Fig. 14) from this locality.

1920 - June 18, 1931, P. 50+

Watson Park Area

Grants County

