

H. #1 Exchange Bank; Sinclair Prairie Oil Co.; SEC
SW sec. 27, T. 33 S., R. 19 W.; Comanche County, Kansas
(Fig. 11).

Sample logs prepared by ~~ver~~ Weebe identify formational
tops at the following depths; Meramec at 5280 feet, Warsaw
at 5550 feet, Cowley at 5690 feet. Recovered specimens of
Apatognathus? and Cavusgnathus identify the A.? gemina -
Cavusgnathus Assemblage Zone from a depth of 5370 feet to
at least 5406 feet, where the lithology changes from argil-
laceous to oolitic limestone. This interval is equivalent
to the St. Louis Formation. Below a depth of 5406 feet
the fauna is meager, and because of the lack of specimens
of Gnathodus texanus Roundy, resembles the upper portion of
the Tabhrognathus varians - Apatognathus? Assemblage Zone,
indicating Salem equivalence. Rocks of the Cowley Forma-
tion, represented in this core from a depth of 6010 to
6100 feet, are early Osagian in age, containing Polygnathus
communis Branson and Mehl and Pseudopolygnathus multistriata
Mehl and Thomas. This is within the Bactrognathus - Poly-
gnathus communis Assemblage Zone, and is equivalent to the
~~Burlington Formation.~~

Low

Fern Glen

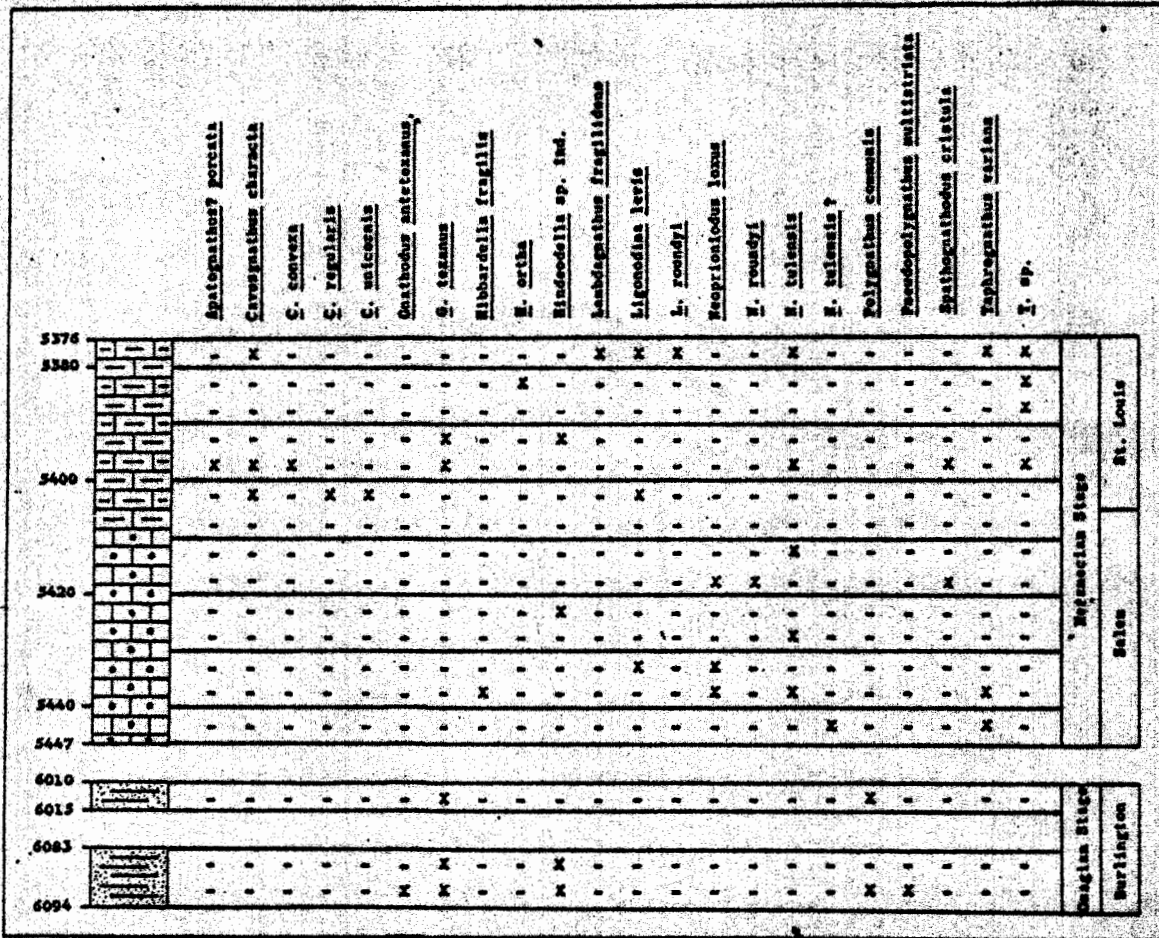


Figure 11. #1 Exchange Bank, elevation 1935 feet. Stratigraphic interval sampled and conodont species recovered.

Sinclair-Prairie Oil: No. 1 Exchange Bank; SEc SW, 27-33-19W,
Comanche County

5376-80'

Cavusgnathus characta
Lambdagnathus fragilidens
Ligonodina levis
L. roundyi
Neoprioniodus tulensis
Taphrognathus varians
T. sp.

5381-85'

Hibbardella ortha
Taphrognathus sp.

5386-90'

Taphrognathus sp.

5391-95'

Gnathodus texanus
Hindeodella sp. ind.

5396-5400'

Apatagnathus? porcata
Cavusgnathus characta
C. convexa
Gnathodus texanus
Neoprioniodus tulensis
Spathognathodus cristula
Taphrognathus sp.

5401-05'

Cavusgnathus characta
C. regularis
C. unicornis
Ligonodina levis

5411-15'

Neoprioniodus tulensis

5416-20'

Neoprioniodus ligo
N. loxus
Spathognathodus cristula

5421-25'

Hindeodella sp. ind.

5426-30'

Neoprioniodus tulensis

5431-35'

Ligonodina levis
Neoprioniodus loxus

5436-40'

Hibbardella fragilis
Neoprioniodus loxus
N. tulensis
Taphrognathus varians

5441-47'

Neoprioniodus tulensis
Taphrognathus varians

6011-15'

Gnathodus texanus
Polygnathus communis

6081-85'

Hindeodella sp. ind.

6086-90'

Gnathodus texanus
Hindeodella sp. ind.

6091-95'

Gnathodus antetexanus
G. delicatus
G. semiglaber
G. texanus
Hibbardella sp.
Polygnathus communis
Pseudopolygnathus multistriata

6106-10'

scolecodont

6221-25'

Belonodontid
Distaconodontid
scolecodonts

6226-30'

Belonodontid
Distaconodontid
Ligonodina sp.
Neoprioniodus loxus
Ozarkodina sp. ind.
scolecodonts

(No. 1 Exchange Bank cont.)

6271-75'

Belonodontid
Distaconodontid
scolecodonts

6276-80'

Belonodontid
Distaconodontid
scolecodont

6281-85'

Belonodontid
Distaconodontid
Ozarkodina sp.

6346-50'

Oistodus sp.
Ozarkodina sp.

2/15/65

Sinclair Prairie Oil; #1 Exchange Bank; C SE SW; 27-33-19W;
Comanche County, Kansas

5375 - *no specimens*
5376' - no specimens.

5377'

- (1) Lambdagnathus fragilidens? Rexroad
- (2) Ligonodina levis Branson & Mehl
- (1) Lonchodina sp.
- (1) Neoprioniodus tulensis (Pander)
- (1) Taphrognathus n. sp. A
- (3) fragments

5378'

- (1) Taphrognathus varians Branson & Mehl

5379'

- (1) Cavusgnathus characta Rexroad
- (2) Ligonodina roundyi Hass
- (2) Ligonodina sp.
- (1) Neoprioniodus tulensis (Pander)
- (3) Taphrognathus n. sp. A

5380'

- (2) Hibbardella ortha Rexroad
- (3) fragments

5381'

- (1) Taphrognathus n. sp. A

5382'

- (1) Ligonodina sp. ind.
- (1) Cavusgnathus or Taphrognathus fragment

5383' - ~~no specimens.~~ *gastropod.*

5385'

- (1) Taphrognathus n. sp. A

5388' - no specimens.

5389' - no specimens.

5391' - no specimens.

5392' - no specimens.

5393'

- (7) Gnathodus texanus Roundy
- (1) Hindeodella sp. ind.
- (2) Ligonodina sp. ind.

5394' - no specimens.

5395'

- (1) Apatognathus? porcata (Hinde)
- (3) Cavusgnathus characta Rexroad
- (1) Gnathodus texanus Roundy
- (1) Ligonodina sp. ind.
- (1) Neoprioniodus tulensis (Pander)
- (1) Spathognathodus cristula Youngquist & Miller

5396'

- (1) Cavusgnathus convexa Rexroad
- (1) Taphrognathus n. sp. A

5401'

- (1) Cavusgnathus characta? Rexroad
- (1) Cavusgnathus unicornis Youngquist & Miller
- (2) Ligonodina sp. ind.

5403'

- (1) Cavusgnathus regularis? Youngquist & Miller
- (2) Ligonodina hamata? Rexroad

5405' - no specimens.

5406' - no specimens.

5408' - no specimens.

5410' - no specimens.

5411'

- (3) fragments

5412' - no specimens.

5413'

- (1) Neoprioniodus tulensis (Pander)

5416'

- (1) Neoprioniodus roundyi (Hass)
- (1) Spathognathodus cristula Youngquist & Miller

5417'

- (1) Neoprioniodus loxus Rexroad

5418' - no specimens.

5419' - no specimens.

5420' - no specimens.

5421'

- (1) fragment
- (1) Spathognathodus sp.

5422'

- (1) Hindeodella sp. ind.

5423'

- (1) Hindeodella sp. ind.
- (1) fragment

5425' - no specimens.

5428'

- (1) Neoprioniodus tulensis? (Pander)

5429'

- (1) Taphrognathus? sp. ind.
- (1) fragment

5431' - no specimens.

5432'

- (1) Ligonodina levis Branson & Mehl
- (1) Neoprioniodus loxus Rexroad

5434'

- (1) Hibbardella? sp.
- (2) fragments

5435'

- (1) Hibbardella milleri Rexroad

5436'

- (1) fragment

5438' - no specimens.

5439'

- (1) Hibbardella milleri Rexroad
- (1) Neoprioniodus loxus Rexroad
- (1) Neoprioniodus tulensis (Pander)
- (1) Taphrognathus varians Branson & Mehl

5440'

- (2) Taphrognathus varians Branson & Mehl
- (3) fragments

5441'

- (1) fragment

5442'

- (1) Taphrognathus? sp. ind.

5443' - no specimens.

5444'

- (1) Ligonodina sp. ind.
- (4) Taphrognathus n. sp. B

5445'

- (1) Ligonodina sp. ind.
- (1) Neoprioniodus n. sp. B
- (1) Ozarkodina sp.
- (7) Taphrognathus varians Branson & Mehl
- (4) Taphrognathus n. sp. B

5447' - no specimens.

~~5950'~~

- ~~(1) scolecodont~~

6011'

6011-15

- ~~(4) arenaceous "forams"~~
- (1) Gnathodus texanus Roundy
- (5) Polygnathus communis Branson & Mehl

6083'

6080-
6085

- (3) Hindeodella sp. ind.
- ~~(17) megaspores~~
- ~~(6) "forams"~~

6084'

- (3) Hindeodella sp. ind.

6085'

- ~~(1) Ectrognathus? sp. ind.~~
- (1) Hindeodella sp. ind.
- ~~(20) megaspores~~
- ~~(6) "forams"~~

6087'

6086-
6090

- 1 (1) Gnathodus texanus Roundy
- ~~(1) Hibbardella sp. ind.~~
- 2 (2) Hindeodella sp. ind.
- ~~(2) megaspores~~
- ~~(2) "forams"~~

6088'

- (1) Gnathodus texanus Roundy
- ~~(2) megaspores~~
- (1) Brachiopod fragment
- (4) "forams"

6089'

- (2) Hindeodella sp. ind.
- ~~(1) fragment~~
- ~~(22) megaspores~~
- ~~(14) "forams"~~

6090'

- (2) Gnathodus texanus Roundy
- (1) Hindeodella sp. ind.
- ~~(5) fragments~~
- ~~(4) megaspores~~
- ~~(3) "forams"~~

6092'

6091-95

- 7(2) Gnathodus antetexanus ~~Rexroad & Scott~~
- 2(4) Gnathodus delicatus ~~Branson & Mehl~~
- 3(2) Gnathodus semiglaber (Bischoff)
- 4(4) Gnathodus texanus Roundy
- 5(1) Hibbardella sp.
- 6(11) Polygnathus communis ~~Branson & Mehl~~
- 1(11) Pseudopolygnathus multistriata ~~Mehl & Thomas~~
- ~~(20) Fragments~~
- (3) ~~Brachiopod fragments~~

6093'
4693'

- (3) Polygnathus communis ~~Branson & Mehl~~
- (1) ~~Brachiopod fragment~~

6094'

- (2) Gnathodus delicatus ~~Branson & Mehl~~
- (1) Gnathodus semiglaber (Bischoff)
- (2) Gnathodus texanus Roundy
- (4) Polygnathus communis ~~Branson & Mehl~~
- ~~(20) Fragments~~
- ~~(2) Brachiopod fragments~~
- (10) ~~"feran" fragments~~

6108'

- (1) scolecodont

6221-2

- ~~(4) Brachiopod fragments~~
- 3(2) scolecodonts
- 1(6) Belonodontid
- 2(12) Distaconodontid
- (4) Ozarkodina

6223'

- ~~(3) Brachiopod fragments~~
- 2(14) Distaconodontid
- 1(3) Belonodontid
- 3(2) scolecodonts

6226' no specimens.

6227'

6226-30

- (1) Salamaspacerus ??
- 6(3) scolecodonts
- 2(14) Distaconodontid
- 1(12) Belonodontid
- ~~(5) fragments~~
- ~~(8) Hibbardella~~ 2

6228'

- (3) scolecodonts
- ~~(1) arenaceous foraminifera~~
- (4) Distaconodontid
- (2) fragments

6230'

~~(1) Brachiopod shell fragment~~

~~5 (2) Ammonoites sp. med~~
4 (1) Neoprioniodus sp. med
3 (6) Ligonodina sp.

6274'

6271-75

2 (3) Distaconodontid
1 (4) Belonodontid
~~(2) Brachiopod shells~~
3 (3) scolecodonts

6276'

6276-80

2 (2) Distaconodontid
1 (6) Belonodontid
3 (1) scolecodont

6281'

6281-85

2 (35) Distaconodontid
~~(25) Ostracodes (internal molds)~~
~~(4) Gastropods (internal molds)~~
3 (2) Ozarkodina sp.
1 (2) Belonodontid
fragments

6347'

6346-50

2 (2) Ozarkodina sp.
1 (3) Oistodus sp.
1 fragments