Mobil Oil Company
A Division of Socony Mobil Oil Company, Inc.
300 NORTH BROADWAY, WICHITA 2, KANSAS

January 9, 1964

Mr. E. D. Goebel
Kansas Geological Survey
University of Kansas
Lawrence, Kansas

Dear Mr. Goebel:

We are sending a core to you with Dan Merriam which we recently cut in the Mobil #1 Elsasser Heirs, 50' E of C SE SW Section 29-18S-22W, Ness County, Kansas. This core was cut in three segments as follows:

Core #1 4321-36, cored 15', recovered 15'
Core #2 4336-43, cored 7', recovered 7'
Core #3 4343-51, cored 8', recovered 5'

We are also enclosing a Laterolog-Gamma Ray Log of the #1 Elsasser Heirs with Mobil correlation tops marked there on.

Although there is some question as to whether these rocks are of Mississippian Warsaw age or are lowermost Pennsylvanian, our present opinion is that the lithologic characteristics seem to indicate the former.

As in the past, we would appreciate having some representative portions of the core returned to this office with any comments that you may have.

Yours very truly,

Norman
N. C. Knapp, District Geologist

GCWilkins:fs

Enclosure

Mobil Oil Co.: No. 1 Elsasser Heirs; C SE SW, 29-18-22W,
Ness County

4321-25'
Gnathodus texanus
Hindeodella sp. ind.
Neoprioniodus tulensis
Taphrognathus varians

4326-30'
Gnathodus texanus
Hindeodella sp. ind.
Neoprioniodus tulensis
Taphrognathus varians

4331-35'
Gnathodus texanus
Hindeodella sp. ind.
Neoprioniodus camurus
Taphrognathus varians

4336-40'
Gnathodus texanus
Hindeodella sp. ind.
Neoprioniodus loxus
Ozarkodina roundyi
Taphrognathus varians

4346-50'
Gnathodus texanus

(N) #1 Elaasser Heirs, Mobil Oil. Co., C, SE, SW, 29-18-22W, Ness Co., Kans.

4321'
(1) Gnathodus texanus
(1) Hindeodella sp.

4322'
(1) Taphrognathus varians

4324'
(6) Gnathodus texanus
(3) Taphrognathus varians
(1) Neoprioniodus scitulus?
(1) Ligonodina
(1) Hindeodella

4325'
(4) Gnathodus texanus

4326'
(2) Gnathodus texanus
(1) ????

4327'
(20) Gnathodus texanus
(4) Taphrognathus varians
(2) Ligonodina
(2) Ozarkodina
(1) ????
(4) fragments

4328'
(1) Gnathodus texanus
(1) Hindeodella
(1) Ligonodina
(1) Spathognathodus
(1) fragment

4329'
(4) Gnathodus texanus

4330' - no specimens

4331'
(1) Gnathodus texanus
(1) Taphrognathus varians

4332' - no specimens

4333'
(6) Gnathodus texanus
(2) Taphrognathus varians
(1) Hindeodella
(3) fragments

4334'
(4) Gnathodus texanus
(1) Hindeodella
(1) Neoprioniodus (Prioniodus?)

4335' - no specimens.

4336' - no specimens.

4337'
(7) Gnathodus texanus
( ) (1) Taphrognathus varians
(1) Neoprioniodus?
(1) Synprioniodina?

4338'
(27) Gnathodus texanus
(12) Taphrognathus varians
(4) Hindeodella
(2) Ozarkodina?
( ) (1) Spathognathodus?
(4) fragments

4339'
(2) Gnathodus texanus
(4) Taphrognathus varians
(1) Neoprioniodus
(1) Hindeodella
(1) Ozarkodina
(2) ????

4341' - no specimens.
4342' - no specimens.
4343' - no specimens.
4344' - no specimens.
4345' - no specimens.
4346' - no specimens.
4347' - no specimens.
4348' - no specimens.
4349' - no specimens.

4350'
( ) (7) Gnathodus texanus

4351' - no specimens.

TOTALS: 31 samples
149 specimens

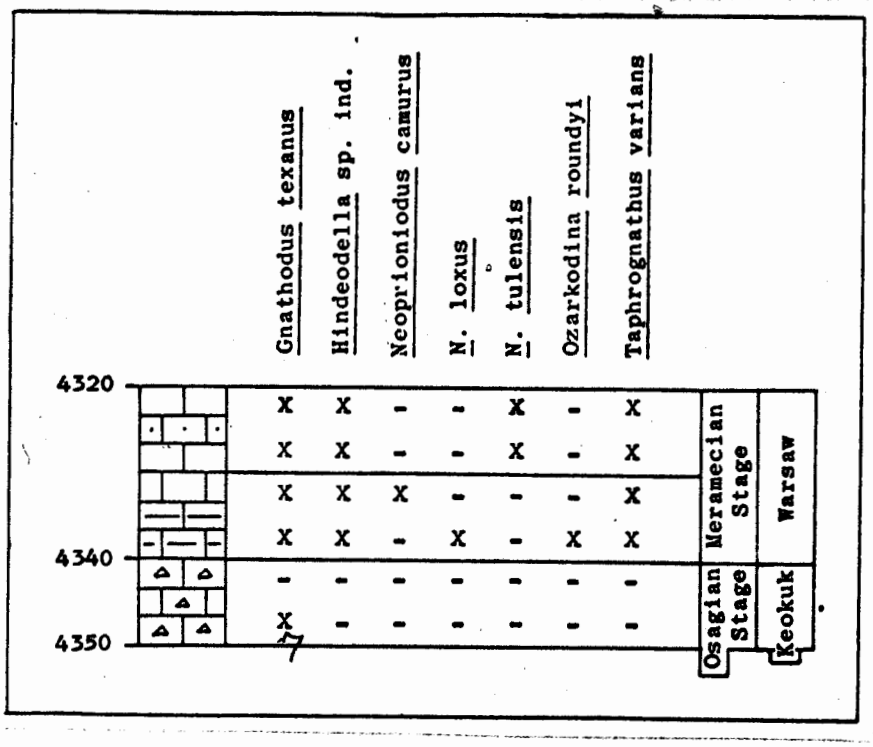


Figure 9. #1 Elsasser Heirs, elevation 2298 feet. Stratigraphic interval sampled and conodont species recovered.

F. #1 Elsasser Heirs; Mobil Oil Co.; C SE SW sec. 29, T. 18 S., R. 22 W.; Ness County, Kansas (Fig. 9).

The drillers log and sample log both place the formational tops at the following depths; Warsaw at 4318 feet, Osage (Keokuk) at 4344 feet. The conodont fauna recovered substantiates the depths indicated.

NESS
County
ELSASSER HEIRS No. 1
Farm
MOBIL OIL
Company

Sec. 29 Section

Twp. 18 S Township

Range 22 W E

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Elev. _____ T.D. _____

Date Drilled _____

Correlation by _____

4300

4320

21
22
23
24
25
26
27
28
29

GNATHODUS TEXANUS
HINDEODELLA SP.
TAPHROGNATHUS VARIANS
GNATHODUS TEXANUS
TAPHROGNATHUS VARIANS
NEOPRIONIODUS SCITULUS?
LIGONODINA
HINDEODELLA
C.F.
C.F.
GNATHODUS TEXANUS
GNATHODUS TEXANUS
GNATHODUS TEXANUS
TAPHROGNATHUS VARIANS
LIGONODINA
OZARKODINA
GNATHODUS TEXANUS
HINDEODELLA
LIGONODINA
SPATHOGNATHODUS
GNATHODUS TEXANUS

4330

4331

GNATHODUS TEXANUS
TAPHROGNATHUS VARIANS

4332

4333

C.F.
GNATHODUS TEXANUS
TAPHROGNATHUS VARIANS
HINDEODELLA

4334

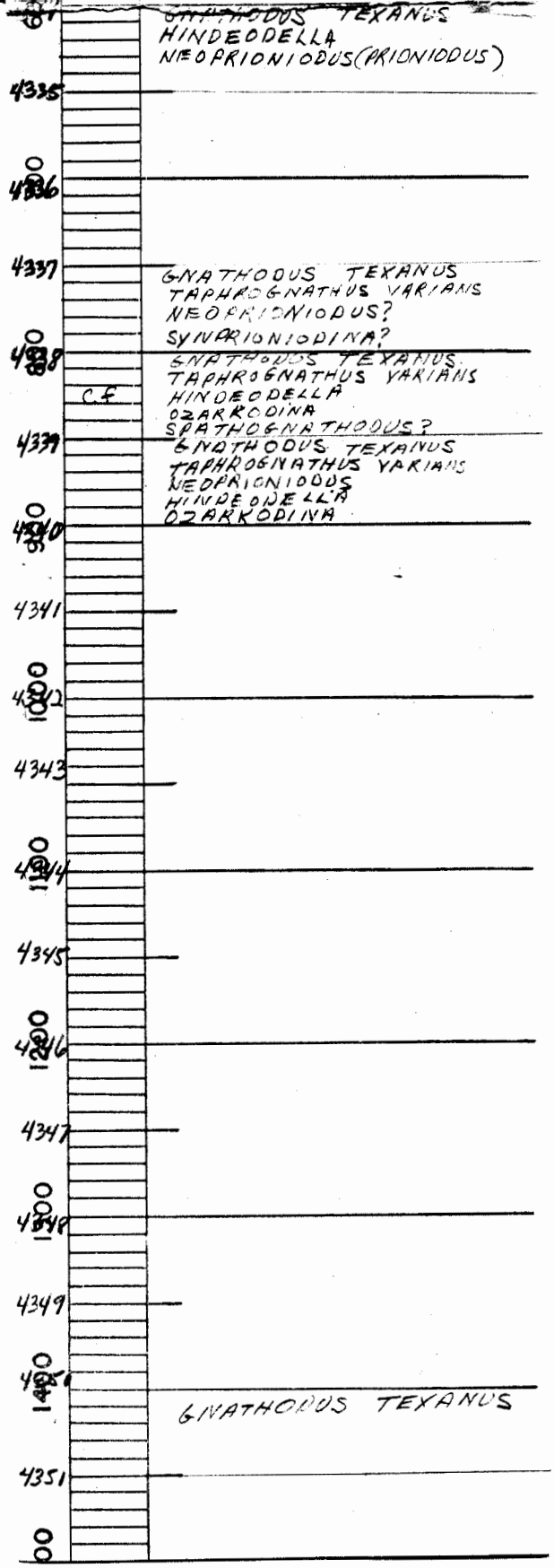
GNATHODUS TEXANUS
HINDEODELLA
NEOPRIONIODUS (PRIONIODUS)

4335

4336

4337

GNATHODUS TEXANUS
TAPHROGNATHUS VARIANS
NEOPRIONIODUS?


GNATHODUS TEXANUS
HINDEODELLA
NEOPRIONIODUS(PRIONIODUS)
4335
4336
4337
GNATHODUS TEXANUS
TAPHROGNATHUS VARIANS
NEOPRIONIODUS?
SYNPRIONIODINA?
4338
GNATHODUS TEXANUS
TAPHROGNATHUS VARIANS
C.f
HINDEODELLA
OZARKODINA
SPATHOGNATHODUS?
4339
GNATHODUS TEXANUS
TAPHROGNATHUS VARIANS
NEOPRIONIODUS
HINDEODELLA
4340
OZARKODINA
4341
4342
4343
4344
4345
4346
4347
4348
4349
4350
GNATHODUS TEXANUS
4351