

Elberon -- cuttings examined 485-660
B. Witke 4/9/1985

CEDAR VALLEY FM.

485-500 Ls., lt. gr. - v. lt. brn. gr., xf, argill.,
fossiliferous (brachiopods, bryoz., crinoid)

WAPSIPINICON FM.

DAVENPORT MBR.

500-518 Ls., v. lt. brn. gr., xf-SL and
Ls., lt. gr., argill. to silty; calcite

SPRING GROVE MBR.

518-537 Dol., sl. calc., vf, v. lt. brn.

KENWOOD MBR.

537-552 Dol., lt. gr., argill. to shaly, pt. calcitic,
pt. silty to sandy; top with abundant chert,
v. lt. gr., S, translucent

OTIS FM.

552-580. Ls., v. lt. gr. - v. lt. brn. gr., xf-vf,
dense

UPPER LaPORTE CITY FM. -- residuum, arg. ls., and shale

580-603 Ls., dolc., lt. brn. gr., sl. arg.-argill.,
xf; some dol., calc., v. lt. brn. gr., vf at top;
top 20' with trace to 10% chert, S.

~603-610 Sh., v. lt. - lt. grn. gr., chunky to squishy,
sl. silty; some Ls., wh., vf-m, xlln and calcite.

LA PORTE CITY FM.

610-635 Ls., pale gr. - pale brn. gr., xf-vf,
dense, pt. sl. arg.; tr. sh. a.a.; tr. calcite;
chert, S., wh. - v. lt. gr., tr. at top; 5-20%
chert below; bryozoan and crinoid noted.

635-660 Ls., pale - v. lt. brn. gr., dense, xf-vf,
pt. sl. arg.-arg.; ~10% chert, S., through;
traces of lt. grn. calc. shale through;
635-640 ~5% calc. grn. sh.; 645-650 ~10%
calc. green shale

Elberon

STRIP
LOG
SCALE

Cedar Valley

Dav.

Spr. Gr.

Kenw

Otis

Upr LPC

~~shale~~

LPC

~~shale~~

~~shale~~

660

~~~~~ top Sil Dolomite estimated ~670

———— est top MAQ = ~ 705-710'

4/6/85  
#27497

To: Charles Kithcart and Mike Bount

These samples are from the bottom part of  
the new Elberon city well drilled by  
McBurney 3/22/85 to 4/15/85. You already have  
the samples from 0-660'  
TD 715'

Casing: 314' of 8-inch set and grouted from  
0-314'; 6-inch liner from 565-649'

Location: NW SW NW NW 13-83N-13W Tama County  
just west of water tower  
Elev. Topo map 889'

SWL 172

PWL 420

Yield 50 gpm (after acid)

Mike: Please make a log within a couple of  
weeks for Shive-Hattery

Thanks

Paul Horvick



881 Mike Boenk

Charles,  
Please cut these  
my 3

[illegible]

## GEO CODING &amp; DATA ENTRY FORM

\*\*\*\*\*  
Columns      Entry      Item/Field (Valid Values)      RECORD TYPE 1  
\*\*\*\*\*

01-01 =      1      RECORD TYPE  
02-03 =      86      COUNTY NUMBER (Table 1) TAMA (Eiberon)  
04-09 =      42° 00' 20"      LATITUDE (ddmmss)  
10-15 =      92° 18' 57"      LONGITUDE (ddmmss)  
16-16 =      SEQUENCE NUMBER  
17-17 =      SYSTEM TOP CODE (Table 2)  
18-18 =      SYSTEM BOT CODE (Table 2)  
19-20 =      TOTAL RECORDS FOR WELL

\*\*\*\*\*  
Columns      Entry      Item/Field (Valid Values)      RECORD TYPE 2  
\*\*\*\*\*

01-01 =      2      RECORD TYPE  
02-06 =      BEDROCK TOP CODE (Table 3)  
07-11 =      BEDROCK BOT CODE (Table 3)  
12-12 =      ALTITUDE ACCURACY CODE (Table 5)  
13-16 =      889      ALTITUDE (feet)  
17-20 =      710      TOTAL DEPTH (feet)

\*\*\*\*\*  
Columns      Entry      Item/Field (Valid Values)      RECORD TYPE 3  
\*\*\*\*\*

01-01 =      3      RECORD TYPE  
02-02 =      LATLON ACCURACY CODE (Table 6)  
03-03 =      STRATIGRAPHIC DATA CODE (Table 7)  
04-06 =      83      TIER NUMBER ( 065 - 100 )  
07-09 =      13      RANGE NUMBER ( 07E - 49W )  
10-11 =      13      SECTION NUMBER ( 01 - 36 )  
12-15 =      B B C B      QUARTERS ( A B C D )  
16-20 =      27497      W-NUMBER



GEO CODING & DATA ENTRY FORM

Columns Entry Item/Field (Valid Values) RECORD TYPE 1

01-01 = 1 RECORD TYPE  
 02-03 = 86 COUNTY NUMBER (Table 1) TAMIA (Eiberon)  
 04-09 = 42° 00' 20" LATITUDE (ddmmss)  
 10-15 = 92° 18' 57" LONGITUDE (ddmmss)  
 16-16 = SEQUENCE NUMBER  
 17-17 = SYSTEM TOP CODE (Table 2)  
 18-18 = SYSTEM BOT CODE (Table 2)  
 19-20 = TOTAL RECORDS FOR WELL

Columns Entry Item/Field (Valid Values) RECORD TYPE 2

01-01 = 2 RECORD TYPE  
 02-06 = BEDROCK TOP CODE (Table 3)  
 07-11 = BEDROCK BOT CODE (Table 3)  
 12-12 = ALTITUDE ACCURACY CODE (Table 5)  
 13-16 = 889 ALTITUDE (feet)  
 17-20 = 710 TOTAL DEPTH (feet)

Columns Entry Item/Field (Valid Values) RECORD TYPE 3

01-01 = 3 RECORD TYPE  
 02-02 = LATLON ACCURACY CODE (Table 6)  
 03-03 = STRATIGRAPHIC DATA CODE (Table 7)  
 04-06 = 83 TIER NUMBER ( 065 - 100 )  
 07-09 = 13 RANGE NUMBER ( 07E - 49W )  
 10-11 = 13 SECTION NUMBER ( 01 - 36 )  
 12-15 = B B C B QUARTERS ( A B C D )  
 16-20 = 27497 W-NUMBER



GEO CODING & DATA ENTRY FORM

\*\*\*\*\*  
Columns      Entry      Item/Field (Valid Values)      RECORD TYPE 4  
\*\*\*\*\*

|         |    |                                     |
|---------|----|-------------------------------------|
| 01-01 = | 4  | RECORD TYPE                         |
| 02-04 = |    | DEPTH TO BEDROCK (feet)             |
| 05-06 = |    | LOG DATA TYPE CODE (Table 9)        |
| 07-07 = | A  | EXPOSURE TYPE CODE (Table 10)       |
| 08-08 = |    | SURFICIAL LITHOLOGY CODE (Table 11) |
| 09-09 = |    | BASEMENT LITHOLOGY CODE (Table 12)  |
| 10-10 = |    | ECONOMIC VALUE CODE (Table 13)      |
| 11-11 = |    | ECONOMIC SYSTEM CODE (Table 3)      |
| 12-12 = |    | ECONOMIC VALUE CODE (Table 13)      |
| 13-13 = |    | ECONOMIC SYSTEM CODE (Table 3)      |
| 14-14 = |    | ECONOMIC VALUE CODE (Table 13)      |
| 15-15 = |    | ECONOMIC SYSTEM CODE (Table 3)      |
| 16-16 = |    | ECONOMIC VALUE CODE (Table 13)      |
| 17-17 = |    | ECONOMIC SYSTEM CODE (Table 3)      |
| 18-20 = | 69 | WELLDRIILLER'S NUMBER (Table 17)    |

Mc Burney

\*\*\*\*\*  
Columns      Entry      Item/Field (Valid Values)      RECORD TYPE 5  
\*\*\*\*\*

|         |   |                                     |
|---------|---|-------------------------------------|
| 01-01 = | 5 | RECORD TYPE                         |
| 02-06 = |   | SSGFM STRATIGRAPHIC CODES (Table 3) |
| 07-07 = |   | blank                               |
| 08-08 = |   | PRIMARY LITHOLOGY CODE (Table 14)   |
| 09-09 = |   | SECONDARY LITHOLOGY CODE (Table 14) |
| 10-10 = |   | MINOR LITHOLOGY CODE (Table 14)     |
| 11-11 = |   | PENETRATION CODE (Table 15)         |
| 12-12 = |   | CONTACT ACCURACY CODE (Table 16)    |
| 13-16 = |   | DEPTH TO TOP OF INTERVAL (feet)     |
| 17-20 = |   | DEPTO TO BOT OF INTERVAL (feet)     |



WELL# 27497

TOP(2)\_\_\_ BOT(2)\_\_\_ BR TOP(12)\_\_\_ \_\_\_ \_\_\_ \_\_\_ BR BOT(12)\_\_\_ \_\_\_ \_\_\_ \_\_\_ ACC(5)\_\_\_

TIER \_ \_ \_ RANGE E/W \_ \_ / \_ SECTION \_ \_ \_ QTRS \_ \_ \_ BA  
DC

SURFACE LITH (8) \_\_\_\_\_ BASEMENT LITH (9) \_\_\_\_\_

ECON VALUE-SYSTEM (10-2) \_\_\_\_\_ DRLR# (11) \_\_\_\_\_

File: GEOCODE.JSR/23