



Layne-Western Company

721 ILLINOIS AVE.

AURORA, ILL.

Well Information - Rock Wells

Name of Job Chemplex Construction Corp. Date 12-14-66

City Near Clinton State Iowa

Well No: 6 Drillers: Rentschler, Butcher

Well Location: 442 ft. (S) and 734 ft. (E) of the Monument "A" corner of

the -- $\frac{1}{4}$ of Section --, Twp. 81 (N), Range 6 (E) Clinton County.

Otherwise located as _____

Work Began: Aug. 3, 1966 Work Completed: Dec. 14, 1966

Casing Record:

Amount	Dia.	Wt. or Thickness	Material
<u>17'</u>	<u>20"</u>	<u>.375</u>	<u>Steel</u> with <u>welded</u> joints from <u>0</u> to <u>17'</u>
<u>902'</u>	<u>16"</u>	<u>.375</u>	<u>Steel</u> with <u>welded</u> joints from <u>0</u> to <u>902'</u>
_____	_____	_____	_____ with _____ joints from _____ to _____
_____	_____	_____	_____ with _____ joints from _____ to _____

Hole Record:

19 1/2 inch from 0 to 902

_____ inch from _____ to _____

_____ inch from _____ to _____

_____ inch from _____ to _____

15 1/2 inch from 902 to 2529 bottom of hole

Cementing Record: 16" casing cemented bottom to top

Well Test Data: Static Level 210; pumping level 298 after 48 hours pumping at 1548 g.p.m.

Length of test 48 hrs. See Well Test Data Sheet Dated Dec. 5, 1966 - Start

Remarks: _____

WELL LOG

Feet	Feet	Description
0	2	Black soil
2	8	Yellow sandy clay
8	10	Broken limestone
10	15	Sand, clay & stones
15	25	Hard brown limestone
25	29	Yellow clay
29	35	Med. hard brown limestone
35	40	Clay
40	135	Brown limestone, clay streaks
135	155	Hard brown limestone
155	190	Med. brown limestone
190	255	Med. gray limestone
255	280	Green shale
280	335	Shale and streaks of limestone
335	355	Med. hard gray limestone
355	415	Blue shale
415	465	Gray shale
465	484	Brown shale
484	525	Hard gray limestone
525	570	Med. hard brown limestone
570	695	Hard brown limestone
695	729	Hard gray limestone
729	731	Shale
731	770	Hard gray limestone
770	785	Med. brown limestone
785	820	Hard gray limestone
820	833	Blue shale
833	865	Hard white sandstone
865	885	Med. hard white sandstone
885	925	Med. sandy limestone
925	945	Hard blue limestone & shale
945	955	Med. brown limestone
955	1045	Hard gray limestone
1045	1055	Med. sandstone
1055	1060	Hard sandstone with limestone streaks
1060	1090	Hard gray limestone
1090	1095	Hard sandstone with limestone streaks
1095	1120	Hard gray limestone
1120	1135	Hard white limestone
1135	1140	Hard gray limestone
1140	1150	Hard sandy limestone
1150	1190	Hard and med. gray limestone
1190	1205	Hard and med. gray sandy limestone
1205	1220	Hard gray limestone
1220	1230	Hard brown limestone
1230	1245	Med. gray sandy limestone
1245	1265	Hard gray limestone
1265	1270	Green shale
1270	1280	Hard sandy limestone
1280	1315	Hard gray limestone
1315	1320	Hard white sandstone - lost cuttings at 1318'
1320	1325	Hard sandy limestone
1325	1380	Hard brown limestone
1380	1390	Hard gray limestone
1390	1460	Hard brown limestone
1460	1475	Hard gray limestone
1475	1480	Gray limestone with green shale streaks

(Continued on Sheet 2 of 2)

WELL LOG

Sheet 2 of 2

[illegible]

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD

Record by R. KARSTEN Source of data FILE Date 5/16/69 Map 7 1/2 CAMAUCHE, IOWA - 14.

State 10WA County 16 CLINTON Sequential number: 23

Latitude: 41 48 05 N Longitude: 09 01 73 7 Sequential number: 1

Lat-long accuracy: 2 T. 81 S. R. 6 W. Sec 20, SE 1/4, SW 1/4, SW 1/4 5

Local well number: 08106E20CCD Other number: W-18973

Local use: 18973 Owner or name: CHEMPLEX CORP #6

Owner or name: CHEMPLEX CORP #6 Address: CLINTON, IA.

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist N

Use of Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, P S, Rec, water: N

Use of (A) (D) (G) (H) (P) (R) (T) (U) (X) (Z) well: W

DATA AVAILABLE: Well data 9 Freq. W/L meas.: I Field aquifer char. 72

Hyd. lab. data: 73

Qual. water data; type: C 74

Freq. sampling: I Pumpage inventory: yes no, period: 76

Aperture cards: yes 77

Log data: DRILLERS 78 79

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 2529 ft Meas. 2529 accuracy 6

Depth cased: 902 ft Casing type: STEEL; Diam. 16 in 16

Finish: (C) porous concrete, (F) gravel w. (G) gravel w. (H) horiz. open perf., (P) screen, (S) sd. pt., (T) shored, (W) open hole, (Z) other X

Method (A) air, (B) bored, (C) cable, (D) dug, (H) hyd, (J) jetted, (P) air, (R) reverse, (T) trenching, (V) driven, (W) drive, (Z) other C

Date Drilled: 11/66 966 Pump intake setting: 36 ft 38

Driller: LAYNE-WESTERN, AYRONA, ILL.

Lift (A) air, (B) bucket, (C) cent, (J) multiple, (L) multiple, (M) multiple, (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, (Z) other 39 Deep 40

Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 41 Trans. or meter no. 42

Descrip. MP LSU ft below LSD. Alt. MP 655

Alt. LSD: 655 Accuracy: 7000 47 3

Water Level 210 ft above MP; Ft above LSD 210 Accuracy: LOG 52 D

Date meas: 12/5/66 D66 Yield: 1548 gpm 1548 Method determined 4

Drawdown: 88 ft 88 Accuracy: LOG 3 Pumping period 48 hrs 48

QUALITY OF WATER DATA: Iron 1.6 Sulfate 49 Chloride 3.5 Hard. 301 7

Sp. Conduct 630 K x 10⁶ 4 Temp. 68 °F 68 Date sampled 11/28/66 N66

Taste, color, etc.

Well No. 081-06E-20-CCD

Well No. 081-065-20 CCDLatitude-longitude 41 48 05 S 090 17 37
d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: CENTRAL LOWLANDS Section: DISSECTED TILL

PLAIN Drainage Basin: 26D Subbasin: 26

(D) (C) (E) (F) (H) (K) (L)
Topo of depression, stream channel, dunes, flat, hilltop, sink, swamp,
well site: (O) (P) (S) (T) (U) (V) 27 S
offshore, pediment, hillside, terrace, undulating, valley flat

MAJOR
AQUIFER: CAMBRIAN, ST. CROIXAN C S CALETHUR DRESBACH E D
system series aquifer, formation, group

Lithology: Origin: MARINE Aquifer Thickness: 6 ft

Length of well open to: 38 ft Depth to top of: 40 ft

MINOR
AQUIFER: CAMBRIAN, ST. CROIXAN C S MT. SIMON DRESBACH M D
system series aquifer, formation, group

Lithology: Origin: MARINE Aquifer Thickness: 6 ft

Length of well open to: 34 ft Depth to top of: 36 ft

Intervals
Screened: NONE

Depth to consolidated rock: ft 60 Source of data: 64

Depth to basement: ft 63 Source of data: 69

Surficial material: Infiltration characteristics: 72

Coefficient Trans: gpd/ft 73 Coefficient Storage: 78

Coefficient Perm: gpd/ft² 73 Spec cap: 75 Number of geologic cards: 79

CASING:

20" 0-16'

16" 0-902'

15 1/4" OPEN HOLE TO BOTTOM

3/68 SWL 120'? PWL 140'? GSD-700 gpm

UNSTUDIED SAMPLES 0-2529



Well No.

081-065-20 CCD



Layne-Western Company

WATER WELL DRILLING
EXPLORATION BORINGS AND TEST SURVEYS
LAYNE TURBINE PUMPS

AREA CODE 312
TELEPHONES: 897-6941
CHICAGO-ENTERPRISE 1204

OFFICES
KANSAS CITY, MISSOURI
WICHITA, KANSAS
OMAHA, NEBRASKA
AMES, IOWA
AURORA, ILLINOIS
ST. LOUIS, MISSOURI
DENVER, COLORADO

721 WEST ILLINOIS AVENUE

AURORA
ILLINOIS
60506

Dec. 12, 1966

Iowa Geological Survey
Iowa City, Ia.

Attention: Mr. Richard C. Northup

Gentlemen:

We are enclosing herewith one copy of our Well Test Data sheet on Well #6 for Chemplex Construction Corp. near Clinton, Ia.

This is for the 48 hour pumping test which we started on December 5th and completed on December 7th.

Very truly yours,

LAYNE-WESTERN COMPANY


J. R. Carson

JRC:dm
Enc.

GW Chemplex Corp well #6
folder Clinton

December 20, 1966

Mr. J. R. Carson
Layne-Western Company
721 West Illinois Avenue
Aurora, Illinois 60506

Dear Mr. Carson,

Thank you very much for sending us a copy of your Well Information sheet on Well #6 for Chemplex Construction Corporation near Clinton, Iowa. The data will be useful to us, and I appreciate your cooperation in furnishing it.

Very truly yours,

H. G. Hershey

HGH:wg

January 10, 1967

Mr. Thomas Kerr
711 3rd Avenue
Chemplex Construction Corporation
New York, N1 Y. 10017

Dear Mr. Kerr:

Enclosed is a data sheet for the #6 well of Chemplex Construction Corporation at Clinton, Iowa. A water sample was collected for chemical analysis and I will forward a copy of the results when we receive the analysis from the laboratory in Des Moines.

We would like to conduct a large scale pumping test when the four proposed wells have been completed. One well would be pumped and the other three would be utilized as observation wells. This program would involve arrangements with Hawkeye Chemical Company and DuPont to determine their production rates and maintain them at a constant volume. A carefully planned and conducted program of this nature would be beneficial to everyone concerned.

I am looking forward to the completion of your wells and the important data that could be obtained from a sustained controlled pumping program. If I can be of other service in the meantime please feel free to call on me.

Very truly yours,

H. G. Hershey

HGH-DLK/1
Enclosure