W-3419

IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

RECORD OF WELL



Location:

Town: La Porte City (N E / S W): County Black Hawk

NE SW sec. 25 T 87 N., R. 12 W. Twp.

(15 ± feet)

Well name and number La Porte City well #2 (1948)

Owner La Porte City Address

Tenant (Glenn Olson - utilities) Address

Contractor Thorpe Well Co. Address Des Moines

Drillers Ben Bergeson

Drilling dates 8/3/48 – August 12 1948

Well data:
Elevations: Drilling curb feet; Land surface 815 ± (within 5 ft) feet

Determined by

Topographic position Valley

Total depth: Reported 250 feet, Measured feet

Drilling method Cable tool

Hole and casing date 56' of 16" temporary pipe
99'6" of 12" permanent casing set at 16'1"
12" hole below casing

Original depth to water 14½ ft. above / below LS Date 8/12/48

Original elevation of water level ft.; Source of data

Sources of water: Principal 100 - 245 ft ; Others
Silurian

Production data: Date _____

Static depth to water 14½ Measuring point _____
Pumping level 86 ft at 800 g.p.m.

_____ _____

_____ _____

_____ _____

Specific capacity _____ g.p.m. per ft. drawdown; Temperature _____ °F.

Pump data; Type pump _____ Column Dia. _____ Length _____
Cylinder or bowls: Dia. _____ Length _____ Suction pipe _____
Power _____ Airline _____
Estimated rate of production: _____ g.p.m. for _____ hrs. a day
Use of water _____

WATER AIALYSES (in parts per million)

Date samples				
Sampled by				
Total solids				
Insoluble matter				
Alkalinity (Meo)				
Alkalinity (Phn)				
pH				
Fe_2O_3- Mn_2O_3-Al_2O_3				
Alkali as sodium				
Calcium				
Magnesium				
Iron (unfiltered)				
Manganese				
Nitrate				
Fluoride				
Chlordie				
Sulfate				
Bicarbonate				
Hardness (ppm)				
Hardness (gpg)				

Remarks _____

Laboratory data: Sample storage location CE1-8

Sample range 0-250 No. spls. 51 No. dupls. & cond. 51- G
Spls. prepared by EMR Washed range 95-250 by EMR
Driller's log and cond. ✓
Insoluble residues: Prepared by _____ Studied by _____ Strip log _____
Microscopic study 0-250 strip log ✓
Gen. log _____ Correl. by MC Parker

File in well folder

LaPorte City (Black Hawk County)

LaPorte City well no. 2

Date completed: August 11, 1948
Production: 700 gpm
Static Water Level: 15 feet
Drawdown: 97 feet at 700 gpm
Casing record: 56 ft. of 16" temporary pipe from surface to 56 ft.
12" casing from +3'5" to 96'1", cemented from 0-50 feet.

Contractor: Thorpe Well Co., Des Moines

Drillers: E. O. Lynn and Ben Bergeson

Encountered limestone at depth of 100 feet.

#2 Well

LAPORTE CITY UTILITIES

NEW WELL

8 - 11 - 48

DEPTH = 250 feet

SIZE = 12 inches

97' 1" of 12" pipe

TOP = at 1 foot above concrete slab.

FORMATION :

0'	to	5'	Black sandy soil
5'	"	30'	Fine sand & gravel
30'	"	45'	Sandy clay
45'	"	55'	Peat brown
55'	"	60'	Bluebrown clay
60'	"	85'	Blue clay & gravel
85'	"	95'	Consolidated sand
95'	"	100'	Green shale & broken lime
100'	"	165'	Limestone white
165'	"	170'	" " brown
170'	"	245'	" " white
245'	"	250'	Shale brown

well 1 (C)

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa

Well Log Record

Well name and number _____ Town LA PORTE CITY County BLACKHAWK

Owner of well LAPORTE CITY Address _____

Tenant _____ Address _____

Location NW 1/4 sec. 36 T. 87 N., R. 12 E. W. _____ Twp.
present final

Curb elevation _____ ft. depth above _____ ft. depth pumping 250 ft.

Static level: (Depth to water below curb) 41 ft. level 80 ft. at 90 g. m.

Contractor _____ Date drilled _____

Description*	Feet Thick	From	To	Description*	Feet Thick	From	To
topsoil & fill		0	5	ls.		110	139
br. cly.		5	26	ls. crevice making H2O		139	160
sdy. bl. cly.		26	30	ls.		160	241
sd. & broken Ls		30	49	ls. & sh.		241	246
soft. ls.		49	67	sh.		246	250
sh. & ls.		67	83				
ls.		83	103				
sdy. ls. & sh.		103	110				

*Abbreviate descriptions, use one line for each formation

Remarks on water zones and casings _____

Temperature: Air ____ °F., Water ____ °F. at A. M. P. M. _____ 19____

Record obtained from GEO. SHAWVER Recorded by FHD