

7179 field located by K Grant

14617

IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey
RECORD OF WELL

Location: 1 m E,

(NE) _____
Town: Storm Lake (SW) County Buena Vista
(E)
SW NW sec. 7 T. 90 N., R. 36 (W) _____ Twp.

Well name and number _____

Owner 779 Farmland Industries
Chuck Hansen Address Storm Lake, Ia

Tenant _____ Address _____

Contractor M.F. Merkley Address Schaller, Ia

Drillers _____

Drilling dates May 26 - June 16, 1962

Well data:

Altitudes: Drilling curb _____ feet; Land surface 1423 feet

Topo el-1411

Determined by altimeter (PDR)

Topographic position Upland

Total depth: Reported 448 feet; Measured _____ feet

Drilling method Rotary

Hole and casing data 448 11-6" csg.

Original depth to water _____ ft. below _____ Date _____

Source of data _____

Sources of water: Principal

406-420

Others

PRODUCTION DATA

Date

Static water level

226

Pumping water level

240

Yield (g.p.m.)

16

Measuring point

Duration of pumping

Specific capacity

LABORATORY DATA

TLA-856

Well No. W14617

Sample range

0-145

No. of samples

85

No. of dupls. and cond.

85 Good

Washed range

Samples prepared by

Kobec

Date

7-2-63

Logged by

NORTHUP

Date

1/22/69

Correlations by

Date

1/22/69

Punched FCH

WRD Exp. (OH)
Aug. 1964

Verified PMJ
U. S. DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

Record by R.W. Coble Source of data FILES Date 6-17-65 Map 1:63,360 COUNTY HWY

State IOWA County BUENA VISTA

Latitude: 42° 37' 40" N Longitude: 095° 08' 50" W Sequential number: 1

Lat-long accuracy: 30 T 90 S, R 36 Sec 7, SW 1/4, NW 1/4, S 5

Local well number: 09036W:076C Other number: W-14617

Local use: 14617 Owner or name: CHUCK HANSEN

Owner or name: CHUCK HANSEN Address: STORM LAKE

Ownership: County, Fed Gov't, City, Corp of Co, Private, State Agency, Water Dist (P)

Use of water: Air cond, Comm, Dewatering, Fire, Dom. Irr, Ind, P S, Stock, Instit, Unused (U)

Use of well: (A) Modc, (B) Drain, (C) Seismic, (D) Obs, (E) Oil-gas, (F) Recharge, (G) Spring, (H) Test, (I) Unused, (J) Withdraw, (K) Waste, (L) Destroyed (V)

DATA AVAILABLE: Well data (1) Freq. W/L meas.: INVENTORY Field aquifer char. (0)

Hyd. lab. data: _____

Qual. water data: type: _____

Freq. sampling: _____ Pumpage inventory: _____ yes/no

Aperture cards: _____ yes

Log data: _____

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 448 ft 4:48 Meas. accuracy (3)

Depth cased (first perf.): 408 ft 4:08 Casing type: STEEL diam. 6 in.

Finish: porous gravel w. screen, gravel w. horz. open perf., concrete, (perf.), (screen), gallery, end, other

Method: (A) air bored, (B) cable, (C) dug, (D) hyd jetted, (E) air reverse, (F) percussive, (G) rotary, (H) driven, (I) drive wash, (J) other

Date drilled: 6-6-1962 6:62 Pump intake setting: _____ ft

Driller: M.F. MERRLEY, SCHALLER, IOWA

Lift (type): (A) air, (B) bucket, (C) cent. jet, (D) multiple, (E) multiple, (F) none, (G) piston, (H) rot, (I) submerg, (J) turb, (K) other

Power: (type): diesel, elec, gas, gasoline, hand, gas, wind, E.E. Trans. of meter no. _____

Descrip. MP LAND SURFACE 0 ft above/below std, Alt. MP 1423

Alt. LSD: 1423 01423 Accuracy: ALTIMETER

Water Level: 226 ft above/below MP; 2:26 Accuracy: DRILLER

Date read: 6-6-1962 6:62 Yield: 16 gpm 116 Method determined: _____

Drawdown: 14 ft 1:4 Accuracy: DRL LOG 3 Pumping period: _____

QUALITY OF WATER DATA: Sulfate _____ Chloride _____ Hard. _____

Sp. Conduct: _____ Smp. _____ Rate sampled: _____

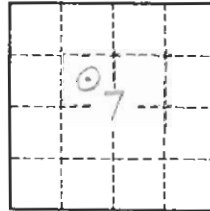
Taste, color, etc. _____

Well Number 42, 37, 40 N 09S, 08

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD
 Physiographic Province: CENTRAL LOWLANDS
 Section: WEST
 Drainage Basin: BOYER
 Subbasin: B.S.B.
 Top of well site: (D) (F) (H) (S) (T) (V)
 MAJOR AQUIFER: CRETACEOUS LOWER DAKOTA SANDSTONE
 Lithology: FINE GRAINED SS
 Origin: MARINE
 Length of well open to: 5 ft
 Depth to top of: 406 ft
 MINOR AQUIFER:
 Lithology:
 Origin:
 Length of well open to: ft
 Depth to top of: ft
 Intervals Screened: SLITTED 408 - 411'
 Depth to consolidated rock: 375 ft
 Source of data: WELL CUTTINGS
 Depth to basement: ft
 Source of data:
 Surficial material: UNLEACHED TILL
 Infiltration characteristics: POOR
 Coefficient Trans: spd/ft
 Coefficient Storage:
 Perm: spd/ft²; Spec cap: spm/ft; Number of geologic cards:

CASING:
 6" 0' TO 448'
 SLITTED 408-411'



DRILLER'S NOTEBOOK

WELL RECORD

DRILLER BOB WINKLER

ADDRESS SCHALLER, IA

OWNER CHUCK HANSEN

ADDRESS STORM LAKE, IA

14617

RETURN TO
IOWA GEOLOGICAL SURVEY
IOWA CITY, IOWA

DRILLER'S NOTE

It is important that a driller's notebook, filled out as completely as possible, be sent to the Iowa Geological Survey at the completion of each hole. A number of drillers have found it convenient to string samples from a single well on a heavy wire and attach the log book to them. A hole has been punched in the log book for this purpose.

Sample sacks and log books will be furnished by the Geological Survey. A copy of the log book will be made and returned if desired by the driller.

SUGGESTIONS TO DRILLERS

1. Samples should be taken from each bed passed through, and never more than 5 feet apart, even in the same bed.
2. Samples should not be washed, except to remove excess drilling mud, as washed samples may give a wrong idea of the character of the bed.
3. Fill out the label on each sample bag with the name of the well and the depth interval which the sample represents.
4. Make frequent use of the "Description" column to explain the material being drilled.
5. Note depth and thickness of all water-bearing layers.
6. Note the quality of the water from each layer: as hard, soft, salty, alkaline, or sulphur bearing.
7. Note height to which water from each layer rises in well, and give flow or capacity in gallons per minute.
8. Fossils, such as oyster, clam, and other shells, are important and should be placed in bags with the material with which they are found and carefully labeled as to the depth from which they were obtained.
9. If you do not understand what is wanted, or desire information on any point, write to the Iowa Geological Survey, Iowa City, Iowa.
10. Samples may be boxed and sent to IOWA GEOLOGICAL SURVEY, IOWA CITY, IOWA, EXPRESS COLLECT.

The Iowa Geological Survey desires to assist and cooperate with owners and drillers in every way possible, and will be glad to answer questions and assist in the solution of problems at any time.

PB-22801-SP

WELL RECORD

N
E
W
N
E
W

Well is located.....1 miles S and.....miles S from
W
W

STORM LAKE in.....B. V.
 (Nearest Town) (County)

in the S.W. 1/4 NW 1/4 Sec. 7 T. 90N. R. 36W

Owner CHUCK HANSEN Well No. 1

Postoffice address STORM LAKE IA

Contractor M.F. MERKLEY

Address SCHALLER, IA

Driller Bob WINKLER

Well begun.....5-26....., 1962
 completed.....6-6....., 1962

Rig used—Cable, Rotary, Jet, or.....

Depth of well.....448' TO TOP OF PIT
 (Feet)

Size of hole (note total amount of each size) 4 1/2"
OF 6" PIPE TO TOP OF PIT

Main water supply at.....406' TO 420'
 (Feet below surface)

Final water head.....226'
 (Feet above or below surface)

Is well pumped?.....BAILED.....

Yield.....16
 (Gallons per minute)

Water level when pumping.....240.....

Position of well.....(Upland, valley, side hill, etc.).....

Sample No.	DEPTH		THICKNESS
	From	To	
	0	2	2
	2	20	18
	20	40	20
	40	45	5
	45	135	90
	135	145	10
	145	146	1
	146	155	9
	155	225	70
	225	240	15
	240	245	5
	245	280	35
	280	360	80
	360	365	5
	365	375	10
	375	387	12
	387	402	15

DESCRIPTION OF BEDS
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
TOP SOIL
YELLOW CLAY
BLUE CLAY
SAND
BLUE CLAY
YELLOW CLAY
SOIL
GRAY CLAY
YELLOW CLAY
BLUE CLAY
YELLOW SAND & CLAY
BLUE CLAY + BOULDERS
SOFT BLUE CLAY
HARD GRAY CLAY
HARD BLUE CLAY
SANDY GRAY CLAY SHALE
SANDSTONE

