

W-4931

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

RECORD OF WELL

Location:

Town: Near Badger (N E)
 (S W): County Webster
 E.
SE SW NW sec. 10 T 90 N., R. 28 W. Badger Twp.

Well name and number Iver Amdahl Well No. 1

Owner Iver Amdahl Address _____

Tenant _____ Address _____

Contractor Art Vinson Address Ft Dodge, Iowa

Drillers Lawrence

Drilling dates Finished July 5, 1951

Well data:

Elevations: Drilling curb _____ feet; Land surface 1145 feet
topo sheet

Determined by W.E. Hale

Topographic position upland

Total depth: Reported _____ feet, Measured 193 feet

Drilling method Cable tool

Hole and casing data 118' of 5 3/4" casing from +.5' to 117.5'
86 feet of 4 1/4" casing from 107' to 193" (perforated
in lower 20 feet)

Original depth to water 52 ft. ^{above} below land surface Date _____

Original elevation of water level _____ ft.; Source of data U.S.G.S.

Sources of water: Principal _____ ; Others _____

Production data:

Date _____

Static depth to water 52 Measuring point land surface
Pumping level 85 at 13 g.p.m.

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

Pump data: Type pump Cylinder Column Dia. 1 1/2 Length 90'
Cylinder or bowls: Dia. _____ Length _____ Suction pipe _____

Power Electric 3/4 HP Airline _____

Estimated rate of production: 4 g.p.m. for _____ hrs. a day

Use of water farm

WATER ANALYSES (in parts per million)

Date samples	_____	_____	_____	_____
Sampled by	_____	_____	_____	_____
Total solids	_____	_____	_____	_____
Insoluble matter	_____	_____	_____	_____
Alkalinity (Meo)	_____	_____	_____	_____
Alkalinity (Phn)	_____	_____	_____	_____
pH	_____	_____	_____	_____
Fe ₂ O ₃ + Mn ₂ O ₃ + Al ₂ O ₃	_____	_____	_____	_____
Alkali as sodium	_____	_____	_____	_____
Calcium	_____	_____	_____	_____
Magnesium	_____	_____	_____	_____
Iron (unfiltered)	_____	_____	_____	_____
Manganese	_____	_____	_____	_____
Nitrate	_____	_____	_____	_____
Fluoride	_____	_____	_____	_____
Chloride	_____	_____	_____	_____
Sulfate	_____	_____	_____	_____
Bicarbonate	_____	_____	_____	_____
Hardness (ppm)	_____	_____	_____	_____
Hardness (gpg)	_____	_____	_____	_____
Remarks	_____			

Laboratory data:

Sample storage location _____

Sample range 0-194 No. spls. 22 No. dupls. & cond. 22-G

Spls. prepared by Staff Washed range 130-194 by Berk 7/10/57

Driller's log and cond. _____

Insoluble residues: Prepared by _____ Studied by _____ Strip log _____

Microscopic study WEH strip log WEH

Gen. log _____ Correl. by WEH

U. S. DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

Well Number 42 37 28 094, 08 19

MASTER CARD

HYDROGEOLOGICAL CARD

Record by **D. AARONSON** Source of data **FILE** Date **2/3/66** Map **1:62,000** **FT. DODGE, QUAD**

State **IOWA** County **WEBSTER** **9 4**

Latitude: **42° 37' 28" N** Longitude: **094° 08' 19" W** Sequential number: **1**

Local well number: **09028W10BDD** Other number: **W-4331**

Local use: **04931** Owner or name: **IVER AMDAHL FARM**

Owner or name: **IVER AMDAHL** Address: **BADGER, IA**

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

Use of water: Air cond, Comm, Dewatering, Fire, **HP** Irr, Ind, P S, Stock, Instit, (U) **H**

Use of well: Anode, Drain, Seismic, Obs, Oil-gas, Recharge, Spring, Test, Unused, Withdrawal, Waste, Destroyed **W**

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

Hyd. lab. data: **0**

Qual. water data; type: **0**

Freq. sampling: **0** Pumpage inventory: **0**

Aperture cards: **0**

Log data: **GEOLOGIST LOG**

SAME AS ON MASTER CARD Physiographic Province: **CENTRAL LOWLAND** Section: **WESTERN**

Lake **B** Drainage Basin: **DES MOINES** Subbasin: **25B**

Topo of well site: local depression, flat surface, hilltop, hillside, terrace, valley flat, **UPLAND**

MAJOR AQUIFER: **MISSISSIPPIAN LOWER** **M 1** **OSAGE** **OX**

Lithology: **FINE DOLOMITE** **2 D** Origin: **MARINE** **6** Aquifer Thickness: **180** ft

Length of well open to: **13** ft Depth to top of: **180** ft

MINOR AQUIFER: **MISSISSIPPIAN UPPER** **M 3** **ST. LOUIS FM** **M L**

Lithology: **FINE-CRSE SANDST.** **2 V** Origin: **MARINE** **6** Aquifer Thickness: **17** ft

Length of well open to: **7** ft Depth to top of: **163** ft

Intervals Screened: **NONE**

Depth to consolidated rock: **112** ft Source of data: **WELL CUTTINGS** **C**

Depth to basement: **0** ft Source of data: **0**

Surficial material: **SANDY TILL** **B T** Infiltration characteristics: **POOR** **9**

Coefficient Trans: **0** gpd/ft Coefficient Storage: **0**

Perm: **0** gpd/ft²; Spec cap: **.39** gpm/ft; Number of geologic cards: **0**

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: **193** ft **193** Meas. accuracy **6**

Depth cased: **173** ft **173** Casing Type: **STEEL** Diam: **5 3/16** in **5**

Finish: porous gravel w. concrete, (perf.), (screen), gailory, end, (H) horz. open end, (S) perf., (T) screen, sd. pt., shored, (W) open hole, (X) other **P**

Method Drilled: **air bored**, (A) (B) (C) (D) (H) (J) (P) (R) (T) (V) (W) (Z) **C**

Date Drilled: **JULY 5, 1951** **9 5 1** Pump intake setting: **0** ft

Driller: **ART VINSON** **FT. DODGE, IA.**

Lift (type): air, bucket, cent, jet, multiple, (cent.), (turb.), none, piston, (turb), submerg, other **D**

Power (type): diesel, **elec** gas, gasoline, hand, gas, wind, H.P. **3/4** **S** Trans. or meter no. **0**

Descrip. MP **LSD** ft above below lsd, Alt. MP **1148**

Alt. LSD: **1148** **1148** Accuracy: **ALTIMETER** **7**

Water Level: **52** ft above MP; Ft above lsd **52** Accuracy: **DRILLER'S LOG** **D**

Date meas: **JULY 1951** **7 5 1** Yield: **13** gpm **13** Method determined **0**

Drawdown: **33** ft **33** Accuracy: **3** Pumping period **0** hrs **0**

QUALITY OF WATER DATA: Iron ppm **0** Sulfate ppm **0** Chloride ppm **0** Hard. **0**

Sp. Conduct **0** K x 10³ Temp. **0** °F **0** Date sampled **0**

Taste, color, etc. **0**

CASING:

118' OF 5 3/16" CASING FROM 7.5' TO 117.5'
86' OF 4 1/4" CASING FROM 107' TO 193',
PERFORATED IN LOWER 20 FT.

