

U. S. DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

Record by R.W. COBLE Source of data FILE Date 6/21/65 County NEW File No. 1:63,360

State IOWA County (or town) BUENA VISTA Section 11

Latitude: 42° 43' 30" N Longitude: 095° 11' 10" W Sequential number: 1

Local well number: 09137 W 02 C B A Other number: W-8104

Local name: 018104 SECURITY County of owner: TOWN OF TRUESDALE

Owner or name: TRUESDALE IOWA Address: TRUESDALE, IA

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

Use of water: Air cond, Com, Domestic, Fire, Irr, Ind, P.S., Stock, Testit, Unused P

Use of well: Aband, Drain, Seismic, Obs, Oil-gas, Recharge, Spring, Test, Unused, Withdraw, Waste, Destroyed W

DATA AVAILABLE: Well data 2 Freq. w/L meas.: INVENTORY 0 Field equipm. chg. 71

Hyd. lab. data: 73

Qual. water data: type: COMPLETE C

Freq. samplings: INTERMITTENT I Passage inventory: yes no 75

Aperture cards: 77

Log data: SAMPLES & PARTIAL DRILLER'S G

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 442 ft. 4; 4; 2 Meas. 6

Depth cased: (first part) _____ ft. Casing type: STEEL Accuracy: 6 in. 6

Finish: potass gravel w. gravel w. horiz. open perf., screen, rd. pc., stored, open hole, other S

Method: air bored, cable, aug, jetted, air percussive, rotary, other H

Date drilled: DEC. 17 55 9; 5; 5 Pump intake setting: 390 ft. 3; 9; 0

Driller: M.F. MERKLEY SCHALLER, IA

Life (type): air, backer, cont. jet, multiple, multiple, noc., piston, rot., submerg, turb, other S Deep D Shallow 49

Power (type): direct, elec, gas, gasoline, hand, gas, wind, H.P. 5

Descrip. WP: LSB ft. above below 1360

Alt. 150: 1369 1; 3; 6; 9 Accuracy: ALTIMETER 7

Water level: 138 ft. above below 198 Accuracy: DRILLER'S LOG D

Date meas: DEC. 17 55 D; 5; 5 Yield: 75 7; 5 Method determined: 61

Drawdown: _____ ft. Accuracy: _____ Pumping period: _____ hrs. 60

QUALITY OF WATER DATA: Iron 8.3 7 Sulfate 423 7 Chloride 105 0 Hard. 742 8

Sp. Conduct. 1410 5 Temp. 52 5; 2 Date sampled 4/23/65 4; 6; 3

Testr, color, etc. YELLOW TURBIDITY ON RECEIPT IN LAB.

Well Number 42 4330 03511 10.1

HYDROGEOLOGIC CARD

SAMP: AS ON MASTER CARD Physiographic Province: CENTRAL LOWLAND 12 Section: WELFORD

LAKE B Drainage Basin: RALCOON 25A Subbasin:

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

MAJOR AQUIFER: CRYSTALLINE LOWER K1 DARWIN SANDSTONE D1

Lithology: FINE SANDSTONE 2V Origin: MARINE 6 Aquifer Thickness: 42 ft

Length of well open to: 42 ft Depth to top of: 388 ft 388

MINOR AQUIFER: QUATERNARY PLEIST Q6 NEBRASKAN 6N

Lithology: COARSE SAND 4.5 Origin: GLAC 0 Aquifer Thickness: 23 ft

Length of well open to: 23 ft Depth to top of: 365 ft 365

Intervals Screened: SCREENED INTERVAL ?

Depth to consolidated rock: 388 ft 388 Source of data: WELL CUTTINGS: C

Depth to basement: _____ ft Source of data: _____

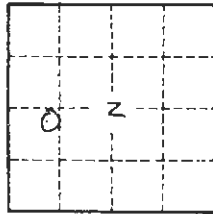
Surficial material: CLAYEN TILL 6T Infiltration characteristics: POOR 4

Coefficient of storage: _____ Coefficient of storage: _____

Permeability: _____ Permeability: _____

Number of geologic cards: _____

CASING:
NO INFORMATION
SCREEN, INTERVAL ?



UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources Division

Local Well No. 091-37W-02CBA

Aquifer Code(s) KID1 QGGX

Owner's Name TRUESDALE CITY (1955)

W Number 08104

Water Quality
(ppm)

Card Q

State: IOWA 1 2 County: BUENA VISTA 3 4 Town: TRUESDALE, IOWA

Well No. Latitude Longitude Seq. No. Date

Sampling Depth Type Kx10⁶ pH Temp. °F

SiO₂ Ca Mg Na K Source No.

HCO₃ CO₃ SO₄ Cl 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F NO₃ PO₄ B Al Fe

Mn Cu Pb Zn

Determined Solids Calc. Ca, Mg Hardness Non-Carb.

Color No.

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ Free CO₂ SAR

RSC ABS Ra U

Alpha (pc/l) Beta (pc/l) Ra (pc/l) U (ug/l)

No. S
80

Recorded by: D. AARONSON

Punched by: T Date: _____

Published: _____

UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources Division

Local Well No. 091-37W-02 CBA

Aquifer Code(s) KIDI Q6GX

Owner's Name TRUESDALE CITY (1955)

W Number 08104

Water Quality
(ppm)

Card Q

State: Iowa 1 9 County: BUENA VISTA 1 1 1 Town: TRUESDALE TOWN

Well No. 4 2 4 3 3 0 N 5 11 Longitude 0 9 5 1 1 1 1 0 12 18 Seq. No. 1 19 Date 0 6 2 8 6 1 20 25

Sampling Depth 4 4 2 26 29 Type 1 30 Kx10⁶ 1 3 5 0 31 35 pH 7 4 36 38 Temp. °F 5 2 39 41

SiO₂ 3 2 42 44 Ca 1 9 5 45 49 Mg 6 0 50 53 Na 4 3 54 58 K 9 4 59 61

HCO₃ 5 0 1 62 65 CO₃ 0 66 67 SO₄ 4 1 3 68 72 Cl 5 73 78 Source No. 3 Q 79 80

Card R

Duplicate Columns 1-25 from Card Q

F 3 26 28 NO₃ 4 29 32 PO₄ 33 35 B 36 38 Al 39 41 Fe 8 0 42 45

Mn 3 0 46 49 Cu 50 52 Pb 53 54 Zn 55 57

Determined 8 2 3 58 63 Calc. 64 69 Ca, Mg 7 3 6 70 73 Hardness Non-Carb. 3 2 5 74 77

Color 78 79 No. R 80

Card S

Duplicate Columns 1-25 from Card Q

Br 26 28 I 29 31 Alk. as CaCO₃ 4 1 1 32 35 Free CO₂ 36 38 SAR 39 41

RSC 42 44 ABS 45 47 48 50

Alpha (pc/l) 55 57 Beta (pc/l) 58 60 Ra (pc/l) 61 63 U (ug/l) 64 66

No. S
80

Recorded by: D. AARONSON

Punched by: T Date: _____

Published: _____

UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources Division

Local Well No. 091-37W-02CBA
Aquifer Code(s) KID1 Q66X
Owner's Name TRUESDALE CITY (1955)
W Number 08104

Water Quality
(ppm)

Card Q

State: Iowa 19 County: BUENA VISTA 11 Town: TRUESDALE, IOWA

Well No. 424330N 0951110 Seq. No. 1 Date 052067

Sampling Depth 442 Type 1 Kx10⁶ 1340 pH 72 Temp. °F 50

SiO₂ 31 Ca 200 Mg 58 Na 38 K 42

HCO₃ 505 CO₃ 0 SO₄ 400 Cl 25 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 2 NO₃ 5 PO₄ B Al Fe 73

Mn 22 Cu Pb Zn Solids Hardness

Determined 1020 Calc. Ca, Mg 740 Non-Carb. 326

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 414 Free CO₂ SAR RSC ABS Alpha (pc/l) Beta (pc/l) Ra (pc/l) U (ug/l)

No. S
80

Recorded by: D. AARONSON

Punched by: T Date: _____

Published: _____

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa

Well Log Record

Well name and number W 8104 Town TRUESDALE County Buena Vista

Owner of well _____ Address _____

Tenant _____ Address _____

Location _____ sec. 2 T. 91 N., R. 37 ^{E.} W. _____ Twp.

Curb elevation _____ ft. present depth _____ ft. final depth 442 ft.

Static level: (Depth to water below curb) 198 ft. ^{above} level _____ ft. ^{pumping} at 75 g. m.

Contractor M. F. MERKLEY Date drilled 12/12/55

Description*	Feet			Description*	Feet		
	Thick	From	To		Thick	From	To
CRUMBLEY SANDSTONE		365	388				
HARD S.S.		388	430				
GRAY SHALES S.S.		430	442				

* Sample 12 cov.

*Abbreviate descriptions: use one line for each formation

Remarks on water zones and casings 442' - 6" SCREWED

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

Record obtained from Merkley Recorded by [Signature]

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

W 8104

Location:

Town: TRUESDALE (NE) (SW) : County BUENA VISTA

NE NW SW sec. 2 T. 91 N., R. 37 W. Twp.

Well name and number _____

Owner TOWN OF TRUESDALE (1955) Address _____

Tenant _____ Address _____

Contractor M.F. MERKLEY Address _____

Drillers _____

Drilling dates DEC-1955

Well data:

Altitudes: Drilling curb _____ feet; Land surface 1369 feet

Determined by altimeter (Top & Land)

Topographic position _____

Total depth: Reported 442 feet, Measured _____ feet

Drilling method _____

Hole and casing data 442' - 6" SCREENED

Original depth to water 198' above _____ ft. below _____ Date _____

Source of data _____

Sources of water: Principal _____

Others _____

Production Data

Date _____
 Static water level 198 _____
 Measuring point _____
 Pumping water level _____
 Yield (g. p. m.) 75 _____
 Duration of pumping _____
 Specific capacity _____

Pump Data

Type pump _____ Column diameter and length _____
 Cylinder or bowls diameter and length _____
 Suction pipe _____ Airline _____
 Power _____ Production _____ g. p. m. for _____ hours per day
 Use of water _____

Dissolved constituents and properties (in parts per million except as indicated)

Date sampled _____
 Sampled by _____
 Silica (SiO₂) _____
 Iron (Fe) _____
 Manganese (Mn) _____
 Calcium (Ca) _____
 Magnesium (Mg) _____
 Potassium (K) _____
 Sodium (Na) _____
 Carbonate (CO₃) _____
 Bicarbonate (HCO₃) _____
 Sulfate (SO₄) _____
 Chloride (Cl) _____
 Fluoride (F) _____
 Nitrate (NO₃) _____
 Dissolved solids _____
 Hardness (as CaCO₃) _____
 Total _____
 Grains per gallon _____
 Noncarbonate _____
 Alkalinity (as CaCO₃) _____
 pH _____
 Specific conductance _____
 (micromhos at 25°C) _____
 Temperature (°F) _____
 Analysis No. _____

Laboratory Data

Well No. W 8104 Sample range 0-440 No. of samples 78
 No. of dupls. and cond. 78 Fair Washed range 365-440
 Samples prepared by Darland Date 11/6/56
 Logged by NORTHUP Date 2/11/57
 Correlations by _____ Date 2/11/57