WELL SCHEDULE

US GEOLOGICAL SURVEY

IOWA DISTRICT WRD

WELL NO 21059 CO CALHOUN

OWNER TOWN #1 ADDRESS SOMERS

DRILLER THORPE DATE DRLD 8-31-68

MAP

SOURCE OF DATA FILE

DESCRIPTION M.P LSD FEET (ABOVE/BELOW) LSD

MASTER CARD - A (3-26-69, RP 11-22-70)

STATE	COUNTY	LATITUDE DEG	LATITUDE MIN	LATITUDE SEC	N or S	LONGITUDE DEG	LONGITUDE MIN	LONGITUDE SEC	SEQ NO
19	34	42	22	36	N	094	25	46	1

CONTINUED FROM ABOVE

ACCURACY	LOCAL WELL NUMBER T	R	E/W	SEC.	QUARTERS	LOCAL USE W-NUMBER	OPTIONAL	OWNER OR NAME	OWNERSHIP	WATER USE	WELL USE	INVEN DATA	W/L FREQ	W/L FIELD CHAR	W/L LAB	WQ-DATA	WQ-FREQ	PUMPAGE	APERTURE	LOG DATA	CARD DESIG
2	087	31	W	02	BDC	21059	1/68	TOWN #1 SOMERS	MP	WI						CP				G	A

WELL-DESCRIPTION CARD - B

DUPLICATE CARD A CC 1-19

DEPTH OF WELL	ACCURACY	DEPTH CASED OR FIRST PERF	DIAM. INCHES	WELL FINISH METH DRILLED	YEAR DRILLED	PUMP SETTING	METH LIFT	DEEP/SHALLOW	POWER	ALTITUDE OF LSD (FEET)	ACCURACY	WATER LEVEL (FEET)	ACCURACY	DATE MONTH	DATE YEAR	YIELD OF WELL (GPM)	METH DET	DRAWDOWN (FEET)	ACCURACY	PUMPING PERIOD (HOURS)	QUALITY OF WATER IRON	SULF	CHLOR	HARD	COND	TEMP	DATE SAMPLED	CARD DESIG
41	0	317	6	X	68					1557	1	028	6	8		50	3	9	3									B

HYDROGEOLOGIC CARD - C

DUPLICATE CARD A CC 1-19

PHYSIOGRAPHY PROV	PHYSIOGRAPHY SEC	DRAINAGE BASIN	SUBBASIN	TOPO SETTING	MAJOR AQUIFER SYSTEM	SERIES USGS	SERIES ISG	UNIT	LITHOLOGY	ORIG	THICKNESS	LENGTH WELL OPEN TO	DEPTH TO TOP OF	MINOR AQUIFER SYSTEM	SERIES USGS	SERIES ISG	UNIT	LITHOLOGY	ORIG	THICKNESS	LENGTH WELL OPEN TO	DEPTH TO TOP OF	DEPTH TO CONSOL-DATED ROCK	SOURCE	DEPTH TO BASEMENT	SURF MAT SOURCE	SURF MAT LITHOLOGY	SURF MAT THICKNESS	SCREEN TRANS SIG FIG	SCREEN TRANS MULT	SCREEN STOR SIG FIG	SCREEN STOR MULT	GEOL CARD DESIG
1	2	6	2	5	A		M		X		Q	D	6								933	05		155	D			T	4					C

CASING AND SCREEN (SIZE, TYPE, INTERVALS):

320' OF 6" CSG, SET AT 317'

STARTED 13" HOLE, FINISHED 6" HOLE

CODED BY Neptune SD DATE 10/18/72

PUNCHED BY Davis DATE 10-20-72

VERIFIED BY DATE

SKETCH ON REVERSE: YES NO

02

WELL NO 21059

WELL SCHEDULE

US GEOLOGICAL SURVEY

IOWA DISTRICT WRD

WELL NO. 087-31W-02BDC CO. CALHOUN

OWNER SOMERS TOWN WELL #1 (1968) ADDRESS SOMERS, IOWA

DRILLER THORPE WELL CO. DATE DRLD. AUG. 1968

MAP 1:63,360 COUNTY HWY.

SOURCE OF DATA FILE

DESCRIPTION M. P. LSD FEET (ABOVE/BELOW) LSD 1155FT.

MASTER CARD – A 9-26-69

STATE	COUNTY	LATITUDE DEG.	LATITUDE MIN.	LATITUDE SEC.	N. or S.	LONGITUDE DEG.	LONGITUDE MIN.	LONGITUDE SEC.	SEQ. NO.
19	13	42	22	36	N	094	25	46	1

CONTINUED FROM ABOVE

ACCURACY	LOCAL WELL NUMBER T.	R.	E/W	SEC.	QUARTERS	LOCAL USE W-NUMBER	LOCAL USE OPTIONAL	OWNER OR NAME	OWNERSHIP	WATER USE	WELL USE	WELL DATA	FREQ. W/L	FIELD CHAR.	HYD. LAB.	QW-DATA	QW-FREQ.	PUMPAGE	APERTURE	LOG DATA	CARD DESIG.
2	087	31	W	02	BDC	21059	//	68CITY	ISØMERS IØWA	M	P	W	1	Ø			C	Ø			GD	A

WELL-DESCRIPTION CARD – B

DUPLICATE CARD A CC 1-19

DEPTH OF WELL	ACCURACY	DEPTH CASED OR FIRST PERF.	DIAM. INCHES	WELL FINISH	METH. DRILLED	YEAR DRILLED	PUMP SETTING	METH. LIFT	DEEP/SHALLOW	POWER	ALTITUDE OF LSD (FEET)	ACCURACY	WATER LEVEL (FEET)	ACCURACY	DATE MONTH	DATE YEAR	YIELD OF WELL (GPM)	METH. DET.	DRAW-DOWN (FEET)	ACCURACY	PUMPING PERIOD (HOURS)	QUALITY OF WATER IRON	SULF.	CHLOR.	HARD	S.P. COND.	TEMP.	DATE SAMPLED	CARD DESIG.
410	3	317	6	X		9681	68		D		1155	4	102	D	86	8	50			93		57	1	85				969	B

HYDROGEOLOGIC CARD – C

DUPLICATE CARD A CC 1-19

PHYS-IOG-RAPHY PROV.	SEC.	DRAINAGE BASIN	SUBBASIN	TOPO SETTING	MAJOR AQUIFER SYSTEM	SERIES USGS	SERIES IGS	UNIT	LITH-OLOGY	ORIG.	THICK-NESS	LENGTH WELL OPEN TO	DEPTH TO TOP OF	MINOR AQUIFER SYSTEM	SERIES USGS	SERIES IGS	UNIT	LITH-OLOGY	ORIG.	THICK-NESS	LENGTH WELL OPEN TO	DEPTH TO TOP OF	DEPTH TO CONSOLI-DATED ROCK	SOURCE	DEPTH TO BASEMENT	SOURCE	SURF. MAT. LITH-OLOGY	INFIL.	COEF. TRAN. SIG. FIG.	XIO	COEF. STOR. SIG. FIG.	XIO	GEOL. CARDS CARD DESIG.
12	B	25	A		M	1	Ø	X	QD	6		65	345	M	3	M	LQ	D	6	40	283	305	143	C			8T	4						C

CASING AND SCREEN (SIZE, TYPE, INTERVALS):

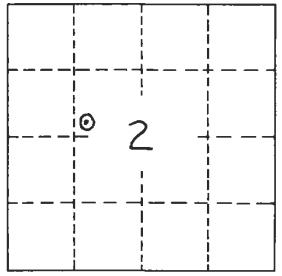
320FT. OF 6" CASING SET @ 317FT.

CODED BY D. AARONSON DATE 24 JUNE 1970

PUNCHED BY T DATE

VERIFIED BY MW DATE

SKETCH ON REVERSE: YES NO ✓



WELL NO. 087-31W-02BDC

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

Water Quality
(ppm)

Local Well No. 087-31W-02BDC
Aquifer Code(s) M1ØX M3ML
Owner's Name SOMERS CITY #1 (1968)
W Number 21059

Card Q

State: IOWA (19) County: CALHOUN (13) Town: SOMERS, IOWA

Well No. Latitude 42223 6 N (5–11) Longitude 094254 6 (12–18) Seq. No. 1 (19) Date M 09 D 15 Y 69 (20–25)

Sampling Depth 410 (26–29) Type 1 (30) Kx10⁶ 1100 (31–35) pH 71 (36–38) Temp. °F (39–41)

SiO_2 12. (42–44) Ca 128 (45–49) Mg 54. (50–53) Na 54. (54–58) K 1. (59–61) Source No. 3 (79) Q (80)

HCO_3 447 (62–65) CO_3 0 (66–67) SO_4 300. (68–72) Cl 11. (73–78)

Card R

Duplicate Columns 1-25 from Card Q

F 1.1 (26–28) NO_3 .4 (29–32) PO_4 (33–35) B (36–38) Al (39–41) Fe 1.1 (42–45)

Mn .05 (46–49) Cu (50–52) Pb (53–54) Zn (55–57)

Solids Determined 811 (58–63) Calc. (64–69) Hardness Ca,Mg 540 (70–73) Non-Carb. 174 (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 $CaCO_3$ 366 (32–35) Free CO_2 (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: I Date:

Published:

087-31W-02 BDC
SOMERS TOWN WELL #1
21059

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

Water Quality
(ppm)

Card Q

State: IOWA (19) County: CALHOUN (13) Town: SOMERS

Well No. Latitude 42 22 36 N (5–11) Longitude 094 25 46 (12–18) Seq. No. 1 (19) Date M 09 D 15 Y 69 (20–25)

Sampling Depth (26–29) Type 1 (30) Kx10^6 1100 (31–35) pH 7.2 (36–38) Temp. °F (39–41)

SiO_2 12. (42–44) Ca 128. (45–49) Mg 54. (50–53) Na 54. (54–58) K 11. (59–61)

HCO_3 447 (62–65) CO_3 0 (66–67) SO_4 300. (68–72) Cl 11. (73–78) Source No. 3 (79) Q (80)

Card R

Duplicate Columns 1-25 from Card Q

F 11. (26–28) NO_3 4 (29–32) PO_4 (33–35) B (36–38) Al (39–41) Fe 1.1 (42–45)

Mn .05 (46–49) Cu (50–52) Pb (53–54) Zn (55–57)

Solids Determined 811 (58–63) Calc. (64–69) Ca,Mg 540 (70–73) Hardness Non-Carb. 174 (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 $CaCO_3$ 366 (32–35) Free CO_2 (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. 5 (80)

Recorded by: Davis

Punched by: Davis Date: 11-1-72

Published:

THORPE WELL COMPANY

R-1-8

2340 SIXTH AVENUE
DES MOINES, IOWA

SW, SE, NW Sec. 2
T. 87 N., R. 31 W
El. 1155±

Drilled for City of Somers *at* Somers, Iowa

Well is located _____ *miles N-E-S-W and* _____ *miles N-E-S-W from* _____

in the _____ ¼ _____ ¼ *Section* _____ *Township* _____ *Range* _____

Drilling started August 23, 1968 *19* ____ *Completed* August 31, 1968 *19* ____

Well No. AR111 *Kind of Well* Rock *Depth* 410 *Size hole started* 13 *in*

Finish 6" *G. P. M.* 100 *Static Head* 102 *Pumping level from surface* Test Pump Set 196' 50 GPM 9Ft Draw Down

Water was first encountered at _____ *in* _____ *Approx. Amt.* _____ *Temp.* _____

Remarks _____

(GIVE DETAILS OF PERFORATED PIPE AND SEALS)

RECORD OF PERMANENT PIPE					TEMPORARY PIPE	
SIZE PIPE	AMOUNT OF PIPE	DEPTH TO BOTTOM OF PIPE	DEPTH TO TOP OF PIPE	MAKE OF PIPE	SIZE PIPE	AMOUNT
					12"	20'
6"	320	317	3Ft. above grade			

Driller Tom Hughes *From Surface to* 410 *feet*

Driller _____ *From* _____ *feet to* _____ *feet*

Driller _____ *From* _____ *feet to* _____ *feet*

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPTH FEET
2	Top Soil	2
141	Gray Drift Streaks Sand & Gravel	143
16	Light Gray Shale	159
17	Dark Gray Shale	176
17	White Shale	193
112	Dark Gray Shale	305
2	White Shale	307
12	White Lime	319
12	Light Gray Limestone	331
15	Soft Sandy Limestone	346
64	Light Brown Limestone, Chert	410
	Traces Shale	
	Pump set at 168'	