7d

091-14W-02 AAAC
July 1972
5070

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

Water Quality
(ppm)

Card Q

State: IOWA (19) County: BREMER (09) Town: WAVERLY

Well No. 42434 1 N (Latitude, 5–11) Longitude 092 28 03 (12–18) Seq. No. 1 (19) Date M 06 D 09 Y 57 (20–25)

Sampling Depth ____ (26–29) Type 1 (30) Kx10⁶ 639 (31–35) pH 7.9 (36–38) Temp. °F ____ (39–41)

SiO_2 7.2 (42–44) Ca 59. (45–49) Mg 30. (50–53) Na 34. (54–58) K 3.0 (59–61)

HCO_3 332 (62–65) CO_3 0 (66–67) SO_4 69. (68–72) Cl 6. (73–78) Source No. 3 (79) 4 (80)

Card R

Duplicate Columns 1-25 from Card Q

F 1.7 (26–28) NO_3 2.7 (29–32) PO_4 ____ (33–35) B ____ (36–38) Al ____ (39–41) Fe .06 (42–45)

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

Solids Determined 383 (58–63) Calc. ____ (64–69) Hardness Ca,Mg 268 (70–73) Non-Carb. ____ (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 $CaCO_3$ 272 (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: Weiland

Punched by: Mac Swan Date: 8-23-72

Published: ____

MASTER CARD-A

9-26-69
RP 11-22-70

STATE	COUNTY	LATITUDE DEG	LATITUDE MIN	LATITUDE SEC	LATITUDE N. or S.	LONGITUDE DEG	LONGITUDE MIN.	LONGITUDE SEC.	NO SEQ.
1 2	3 4	5 6	7 8	9 10	11	12 13 14	15 16	17 18	19
19	09	42	43	41	N	092	28	03	1

WELL SCHEDULE

US GEOLOGICAL SURVEY

IOWA DISTRICT WRD

WELL NO 0070 CO BREMER

OWNER CITY WELL #1 ADDRESS WAVERLY

DRILLER MILLER DATE DRLD 1899

MAP

SOURCE OF DATA FILE

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

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
	20	21 22 23	24 25	26	27 28	29 30 31 32 33 34	35 36 37 38 39	40 41 42 43 44 45 46 47 48 49 50 51	52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	67	68	69	70	71	72	73	74	75	76	77	78 79	80
	2	091	14	W	02	BACC	00070	1 1 9 9 CITY	WAVERLY	M	P	W	5	Ø			C	Ø			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 MTH. 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	SP. COND.	TEMP	DATE SAMPLED	CARD DESIG.
	20 21 22 23	24	25 26 27 28	29 30	31	32 33 34 35	36 37 38	39	40	41	42 43 44 45 46	47	48 49 50 51	52	53 54	55	56 57 58 59 60	61	62 63 64	65	66 67 68	69	70	71	72	73	74 75 76	77 78 79	80
	172	03			C	899					9307						225	3											B

HYDROGEOLOGIC CARD - C

DUPLICATE CARD A CC 1-19	PHYS-IOG-RAPHY PROV.	PHYS-IOG-RAPHY SEC.	DRAINAGE BASIN	SUBBASIN	TOPO SETTING	MAJOR AQUIFER SYSTEM	MAJOR AQUIFER SERIES USGS	MAJOR AQUIFER SERIES ISG	MAJOR AQUIFER UNIT	MAJOR AQUIFER LITH-OLOGY	MAJOR AQUIFER ORIG.	MAJOR AQUIFER THICK-NESS	MAJOR AQUIFER LENGTH WELL OPEN TO	MAJOR AQUIFER DEPTH TO TOP OF	MINOR AQUIFER SYSTEM	MINOR AQUIFER SERIES USGS	MINOR AQUIFER SERIES ISG	MINOR AQUIFER UNIT	MINOR AQUIFER LITH-OLOGY	MINOR AQUIFER ORIG.	MINOR AQUIFER THICK-NESS	MINOR AQUIFER LENGTH WELL OPEN TO	MINOR AQUIFER DEPTH TO TOP OF	DEPTH TO CONSOL-DATED ROCK	SOURCE	DEPTH TO BASEMENT	SURF MAT. LITH-OLOGY	SURF MAT. INFIL	COEF TRAN SIG FIG	COEF TRAN XIO	COEF STOR SIG FIG	COEF STOR XIO-	CARD DESIG.
	20 21	22	23 24 25	26	27	28	29	30	31	32 33	34	35 36 37	38 39 40	41 42 43	44	45	46	47	48 49	50	51 52 53	54 55 56	57 58 59	60 61 62 63	64	65 66 67 68	69	70 71	72	73 74	75	76 77	78	79	80
	12	E	25	E		C	3	S	X	YD	6		595	A13	Ø		X		YD	6		A02	110		OD									C

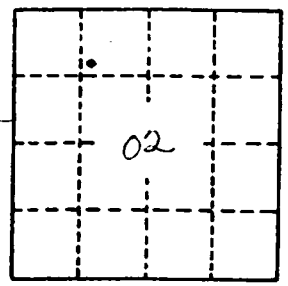
CASING AND SCREEN (SIZE, TYPE, INTERVALS):

CODED BY Hefner gpr DATE 8-15-72

PUNCHED BY Hefner DATE 8-17-72

VERIFIED BY DATE

SKETCH ON REVERSE: YES NO



WELL NO 70