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.
1 2	3 4	5 6	7 8	9 10	11	12 13 14	15 16	17 18	19
19	32	43	19	00	N	094	48	00	1

WELL SCHEDULE

US GEOLOGICAL SURVEY

IOWA DISTRICT WRD

WELL NO. 098-34W-12A CO. EMMET

OWNER WALLINGFORD CITIZENS ADDRESS WALLINGFORD, IA.

DRILLER BONNICKSEN BROS. DATE DRLD. 1957

MAP COUNTY HWY 1:63,360

SOURCE OF DATA FILE

DESCRIPTION M. P. _____ LSD FEET (ABOVE) (BELOW) LSD 1347

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	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
	4	098	34	W	12	A	09504	/	WALLINGFORD CITZNS	P	P	W	4	N			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	$\frac{S}{P}$ 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
	33	3				C	957		P	D	5	1347	7					4					6	70	85			50	866	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	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	SURF. MAT. INFIL.	COEF. TRAN. SIG. FIG	COEF. TRAN. XIO	COEF. STOR. SIG. FIG	COEF. STOR. XIO-	GEOL. CARDS	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	B	25	B		K	1	D	1	4	V	6			315									285				8	T	4						C

CASING AND SCREEN (SIZE, TYPE, INTERVALS):

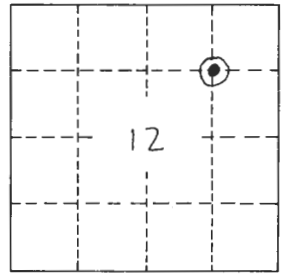
No Data.

CODED BY D. AARONSON DATE 21 JAN. 1970

PUNCHED BY I DATE _____

VERIFIED BY _____ DATE _____

SKETCH ON REVERSE: YES _____ NO ✓



WELL NO. 098-34W-12A

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

Water Quality
(ppm)

Local Well No. 098-34W-12A
Aquifer Code(s) KDI
Owner's Name WALLINGFORD CITIZENS
W Number 2504

Card Q

State: IOWA (1 2: 19) County: EMMET (3 4: 32) Town: WALLINGFORD, IOWA

Well No. (5–11): Latitude 43 19 00 N
(12–18): Longitude 094 48 00
Seq. No. (19): 1
Date (20–25): M 08 D 03 Y 66

Sampling Depth (26–29): 35
Type (30): 1
Kx10⁶ (31–35): 1340
pH (36–38): 7.4
Temp. °F (39–41): 50

SiO_2 (42–44): 18.
Ca (45–49): 176.
Mg (50–53): 51.
Na (54–58): 61.
K (59–61): 3.8

HCO_3 (62–65): 438
CO_3 (66–67): 0
SO_4 (68–72): 414.
Cl (73–78): 2.
Source No. (79–80): 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F (26–28): .5
NO_3 (29–32): .3
PO_4 (33–35):
B (36–38):
Al (39–41):
Fe (42–45): 33.

Mn (46–49): .31
Cu (50–52):
Pb (53–54):
Zn (55–57):

Determined Solids (58–63): 1040
Calc. (64–69):
Ca,Mg Hardness (70–73): 650
Non-Carb. (74–77): 291

Color (78–79):
No. (80): R

Card S

Duplicate Columns 1-25 from Card Q

Br (26–28):
I (29–31):
Alk. as $CaCO_3$ (32–35): 359
Free CO_2 (36–38):
SAR (39–41):

RSC (42–44):
ABS (45–47):
(48–50):
(51–54):

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

No. (80): S

Recorded by: D. AARONSON
Punched by: T Date:
Published:

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

No. 9504

Location:

Leon Steele visited well, location is

Town: WALLINGFORD (N E) (S W) :County EMMET

SW SE NE sec. 12 T. 98 N., R. 34 W., _____ Twp.

Well name and number _____

Owner WALLINGFORD CITY WELL Address _____

Tenant _____ Address _____

Contractor BONNICKSEN BROS Address RINGSTEAD, IOWA

Drillers _____

Drilling dates 1957

Well data:

Altitudes: Drilling curb _____ feet; Land surface 1347 (LLS) feet

_____

Determined by _____

Topographic position _____

Total depth: Reported 335 feet, Measured _____ feet

_____

Drilling method CABLE TOOLS

Hole and casing data _____

_____

_____

_____

_____

Original depth to water _____ ft. above/below _____ Date _____

Source of data _____

Sources of water: Principal _____

Others _____

Production Data

Date				
Static water level				
Measuring point				
Pumping water level				
Yield (g. p. m.)				
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 (SiO_2)				
Iron (Fe)				
Manganese (Mn)				
Calcium (Ca)				
Magnesium (Mg)				
Potassium (K)				
Sodium (Na)				
Carbonate (CO_3)				
Bicarbonate (HCO_3)				
Sulfate (SO_4)				
Chloride (Cl)				
Fluoride (F)				
Nitrate (NO_3)				
Dissolved solids				
Hardness (as $CaCO_3$)				
Total				
Grains per gallon				
Noncarbonate				
Alkalinity (as $CaCO_3$)				
pH				
Specific conductance (micromhos at 25°C)				
Temperature (°F)				
Analysis No.				

Laboratory Data

NB1-21

Well No. [redacted] 9S 04 Sample range 0-235 No. of samples 61

No. of dupls. and cond. 61 - Good Washed range 300-335

Samples prepared by C. Upchurch Date 12-58

Logged by Northup Date 12/8/59

Correlations by _____ Date 12/8/59