070-04W-16DAA

W 8739

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

Location: IN TOWN 50' NE OF OLD WELL

Town: DANVILLE (NE) (SW) :County DES MOINES

NE NE SE sec. 16 (+5 on) T. 70 N., R. 4 W. (E.) Twp.

Well name and number

Owner TOWN OF DANVILLE WELL #2 Address

Tenant Address

Contractor C.L. JENNINGS Address NEW LONDON

Drillers

Drilling dates JAN. 21 - APRIL 11, 1957

Well data:

Altitudes: Drilling curb feet; Land surface 717 feet

Determined by

Topographic position

Total depth: Reported 1187 feet, Measured feet

Drilling method CABLE TOOLS

Hole and casing data

Original depth to water 178 ft. above/below Date

Source of data

Sources of water: Principal

Others

Production Data

Date				
Static water level	178			
Measuring point				
Pumping water level	279			
Yield (g. p. m.)	97 TEMP. 63°			
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

Well No. 8730 Sample range 0-1185 No. of samples 231 (CC 5-15/16, CB 5-10)

No. of dupls. and cond. 208 good & fair Washed range 95-1185

Samples prepared by B. HENDERSON & R. VALENTINE Date 9/3/57

Logged by NORTHUP Date 6/26/58

Correlations by " Date 6/26/58

W-8139

WELL RECORD

Well is located.....miles N/E/S/W and.....miles N/E/S/W from

Danville Ia in Henry County,
(Nearest Town) (County)

in the .....¼.....¼ Sec.....T.....R.....

Owner CITY DANVILLE Well No. 2

Postoffice address .....

Contractor C.L. JENNING

Address NEW LONDON

Driller Wright-Hunter

Well begun 1-21-, 1957;

completed....., 19.....

Rig used—Cable, Rotary, Jet, or CABLE RIG

Depth of well.....
(Feet)

Size of hole (note total amount of each size).....

.....

Main water supply at.....
(Feet below surface)

Final water head.....
(Feet above or below surface)

Is well pumped?.....

Yield .....
(Gallons per minute)

Water level when pumping.....

Position of well.....
(Upland, valley, side hill, etc.)

RECORD OF PERMANENT CASING

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type* and Weight of Pipe	DIAGRAM OF WELL
	92'	12"		pipe	310' open hole

*As cast, wrought iron, steel, concrete, etc.

Is screen used?..... Diameter.....
(Inches)

Length..... Depth to bottom.....
(Feet)

Depth to top.....Slot size.....

Are packers or seals used?.....

Kind .....

Where used.....

Kind of pump.....Dia.....
(Inches)

Capacity of pump.....
(g.p.m.)

Power used.....
(Kind and amount)

Depth to bottom of pump line.....feet,

including .....feet tailpiece.

Remarks on construction of well.....

.....

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	0	5		Top Soil
	5	10		red clay
	10	15		" "
	15	20		" "
	20	25		" "
	25	30		Blue Clay
	30	35		" "
	35	40		Sand and Red clay
	40	45		" "
	45	50		" "
	50	55		Sand and Red Clay
	55	60		" "
	60	65		" "
	65	70		" "
	70	75		Blue Clay
	75	80		sand in Blue clay
	80	85		LAMPED. SOFT. LIME ROCK

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	85	90	Gravel	Run in from 85
	90	95	"	"
	95	100	Rock	shale
	100	105	"	"
	105	110	Gray	shale
	110	115	"	"
	115	120	"	"
	120	125	Rock &	shale
	125	130	shale	
	130	135	"	
	135	140	shale	
	140	145	Rock &	shale
	145	150	"	"
	150	155	"	"
	155	160	"	"
	160	165	"	"
	165	170	"	"

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	170	175	Shale	Rock
	175	180	"	"
	180	185	"	"
	185	190	Rock	
	190	195	"	
	195	200	"	
	200	205	"	
	205	210	"	
	210	215	"	
	215	220	"	
	220	225	"	
	225	230	"	
	230	235	"	
	235	240	"	
	240	245	"	
	245	250	"	
	250	255	"	

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	255	260		lime stone
	260	265		"
	265	270		" "
	270	275		" "
	275	280		" "
	280	285		" "
	285	290		" "
	290	295		" "
	295	300		" "
	300	305		" "
	305	310		" "
	310	315		" "
	320	325		" "
	325	330		" "
	330	335		Blue shale.
				Bailing 8.32 am till 9:17
	335	340		shale

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	340	345	Shale	425 - 430 - Shale
	345	350	" "	430 435 " "
	350	355	" "	435 440 " "
	355	360	" "	440 445 Shale
	360	365	" "	445 - 450 Shale
	365	370	" "	450 - 455 - Shale
	370	375	" "	455 - 460 - Shale
	375	380	" "	460 . 465 - Shale
	380	385	" "	465 - 470 - Shale
	385	390	" "	470 - 475 - Shale
	390	395	" "	475 - 480 - Brown Shale
	395	400	" "	480 - 485 Brown Shale
	400	405	" "	485 - 490 Grey Shale
	405	410	" "	490 - 495 " "
	410	415	" "	495 - 500 " "
	415	420	" "	500 - 505 " "
	420	425	" "	505 - 510 " "

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	510	515		Grey Shale
	515	520		" "
	520	525		" "
	525	530		" "
	530	535		" "
	535	540		" "
	540	545		" "
	545	550		Gray Shale
	550	555		Gray Shale
	555	560		" "
	560	565		" "
	565	570		" "
	570	575		" "
	575	580		Gray Shale
	580	585		" "
	585	590		" "
	590	595		" "

WELL RECORD

Well is located 0 miles N E S W and 0 miles N E S W from

Mansfield in the Maine
(Nearest Town) (County)

in the ..... ¼ ..... ¼ Sec. ..... T. ..... R. .....

Owner City of Mansfield Well No. 2

Postoffice address Mansfield Ga.

Contractor L. Benning

Address New London

Driller Wright & Tucker

Well begun ....., 19.....;

completed ....., 19.....

Rig used—Cable, Rotary, Jet, or Cable

Depth of well .....
(Feet)

Size of hole (note total amount of each size) .....

.....

Main water supply at .....
(Feet below surface)

Final water head .....
(Feet above or below surface)

Is well pumped? .....

Yield .....
(Gallons per minute)

Water level when pumping .....

Position of well .....
(Upland, valley, side hill, etc.)

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	595	600		Gray Shale
	600	605		" "
	605	610		" "
	610	615		Gray Shale
	615	620		Lime-Brown & Shale
	620	625		Lime Rock-Brown
	625	630		" " "
	630	635		" " "
	635	640		" " "
	640	645		Lime Rock Brown
	645	650		(Water) (Real particals from Socket) (Med-Hard)
	650	655		Brown Lime (Med Hard)
	655	660		Brown-Lime - Shale - Breaks
	660	665		" " "
	665	670		" " "
	670	675		Brown lime & Shale
	675	680		Lime Brown & Shale Breaks

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	680	685		Lime Rock Brown & Shale
	685	690		Lime Rock Brown & Shale
	690	695		" " " "
	695	700		" " " "
	700	705		Lime Rock Brown - Hard
	705	710		Brown Lime - Shale Breaks
	710	715		
	715	720		
	720	725		
	725	730		Lime Brown & Shale
	730	735		" " " "
	735	940		" "
	740	745		" "
	745	750		Lime Rock Gray Shale
	750	755		Lime Rock Brown
	755	760		Lime Rock Brown
	760	765		" " "

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	765	770		Lime and Shale
	770	775		Brown limestone
	775	780		Lime Brown & Shale B.
	780	785		Lime gray & Shale
	785	790		Lime gray & Shale
	790	795		Shale - Blue - Mud
	795	800		Shale - Blue - mud
	800	805		Shale - Blue
	805	810		" " "
	810	815		" " "
	815	820		" " "
	820	825	Reduce Hole 8 25-8"	Sand Shale
	825	830		Sandstone - Shale
	830	835		Sandstone - Shale
	835	840		Dolomite Hard
	840	845		Dolomite - Hard
	845	850		" " "

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	850	855		Dolomite Very Hard
	855	860		" " "
	860	865		Dolomite - Hard
	865	870		Dolomite - Soapstone Shale - Hard
	870	875		Dolomite - Hard
	875	880		Shale - Dolomite
	880	885		Soapstone
	885	890		" "
	890	895		Shale or Soapstone, Dolomite Brown, Hard
	895	900		" " " " "
	900	905		" " " " "
	905	910		" " " " "
	910	915		Shale & Rock cutting Hard
	915	920		Lime Braun & Shale
	920	925		" " "
	925	930		" " "
	930	935		Lime Braun - Shale falling in

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	935	940		Lime Brown - Hard
	940	945		Lime Brown - Hard
	945	950		" " "
	950	955		Lime Rock Brown - Med
	955	960		Lime Rock Brown Med
	960	965		Lime Rock Brown Med
	965	970		Lime Brown - Shale Break
	970	975		Lime Brown - Hard
	975	980		" " "
	980	985		" " "
	985	990		" " "
	990	995		Lime Brown - Shale falling
	995	1000		Lime Brown - Shale falling
	1000	1005		" " " "
	1005	1010		Lime Brown - Shale falling
	1010	1015		Lime Rock Brown
	1015	1020		Lime Rock Brown Hard

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
	1020	1025	Hard	Brown lime	
	1025	1030	"	"	"
	1030	1035	Lime	Dolomite quartz	
	1035	1040	"	"	"
	1040	1045	"	"	"
	1045	1050	Brown lime		
	1050	1055		"	"
	1055	1060		"	"
	1060	1065		"	"
	1065	1070		"	"
	1070	1075		"	"
	1075	1080		Lime + Sandstone	
	1080	1085		White Sand.	
	1085	1090		"	"
	1090	1095		"	"
	1095	1100		White Sand Rock	
	1100	1105		White Sand Rock	

WELL RECORD

Well is located 0 miles N/E/S/W and 0 miles N/E/S/W from

Danville (Nearest Town) in Des Moines (County),

in the ....¼....¼ Sec.....T.....R.....

Owner City of Danville Well No. 2

Postoffice address Danville Ia.

Contractor C. L. Downing

Address New London Ia.

Driller Wright & Huber

Well begun 1-21, 1952;

completed....., 19.....

Rig used—Cable, Rotary, Jet, or.....

Depth of well..... (Feet)

Size of hole (note total amount of each size).....

.....

Main water supply at..... (Feet below surface)

Final water head..... (Feet above or below surface)

Is well pumped?.....

Yield ..... (Gallons per minute)

Water level when pumping.....

Position of well..... (Upland, valley, side hill, etc.)

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	1105	1110		White Sand Stone
	1110	1115		" " "
	1115	1120		" " "
	1120	1125		" " "
	1125	1130		" " "
	1130	1135		Sand Stone - Shale Broke
	1135	1140		Sand Stone - Shale Broke
	1140	1145		Shale
	1145	1150		Shale
	1150	1155		Brown sand stone,
	1155	1160		" " "
	1160	1165		" " "
	1165	1170		" " "
	1170	1175		" " "
	1175	1180		White sand stone
	1180	1185		" " "
	1185	1187		Lime Stone

8739

Name: Danville city well No. 2 (1957)

Loc: NE NE SE 16-70N-4W Des Moines Co.

Drilling depth: 610' base Maple Mill

Drilled by: Jennings Jan-Apr. 1957

Log: W-8739 Northup

Remarks: Well was completed in St. Peter or Pdc at 1187'