W8416

WELL RECORD

Well is located 1 miles N E S W and 1½ miles N E S W from LECLAIRE (Nearest Town) in SCOTT (County),
in the NW ¼ ¼ Sec. 34 T. 79 R. E OF 5TH PM PART OF
Owner Leclaire Prop school Well No. 1
Postoffice address Leclaire Ia
Contractor CHESTER J. HOVER WELL DRILLING
Address 2036 FILLMORE ST. DAV. IA
Driller FRANK ZAPLETAL
Well begun AUG 3RD., 19 53;
completed Aug 15th, 19 53
Rig used—Cable, Rotary, Jet, or CABLE
Depth of well 257 (Feet)
Size of hole (note total amount of each size) 6"

Main water supply at Best at 135 ft Different levels (Feet below surface)
Final water head 20 (Feet above or below surface)
Is well pumped? Bailed
Yield 40 gals. at 122 ft (Gallons per minute)
Water level when pumping 60'
Position of well (Upland, valley, side hill, etc.)

Date and Time	Water Level	SOURCE OF WATER		Production in Gallons per Minute	Pumping Level
		Depth	Type of Rock		

NOTE: Water levels should be recorded at time of change *and* at regular intervals; for example each morning before drilling starts or at the end of each 100 feet of drilling.

RECORD OF PERMANENT CASING

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type* and Weight of Pipe
8"	17-3			
	19-1			
	9-10			
	13-7			S
	10-			T
	~~69-7~~			
6"				T
	22-1			
	22-5			T
	22-11			
	22-7			T
	3-			
	93-0			

DIAGRAM OF WELL

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

Is screen used? N Diameter _____ (Inches)

Length _____ (Feet) Depth to bottom _____

Depth to top _____ Slot size _____

Are packers or seals used? _____

Kind _____

Where used RED JACKET

Kiud of pump Submerge Dia. 4" (Inches)

Capacity of pump 24 at 100 ft (g.p.m.)

Power used Electric (Kind and amount)

Depth to bottom of pump line 147 feet,

including none feet tailpiece.

Remarks on construction of well _____

Sample No.	DEPTH		THICKNESS
	From	To	
1	0	5'	5'
2	5	10	"
3	10	15	"
4	15	20	"
5	20	25	"
6	25	30	"
7	30	35	"
8	35	40	"
9	40	45	"
10	45	50	"
11	50	55	"
12	55	60	"
13	60	65	"
14	65	70	"
15	70	75	"
16	75	80	"
17	80	85	"

Sample No.	DEPTH		THICKNESS
	From	To	
18	85	90	5
19	90	95	"
20	95	100	"
21	100	105	"
22	105	110	"
23	110	115	"
24	115	120	"
25	120	125	"
26	125	130	"
27	130	135	"
28	135	140	"
29	140	145	"
30	145	150	"
31	150	155	"
32	155	160	"
33	160	165	"
34	165	170	"

DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
Black soil
yellow clay
" "
" "
" "
blue "
" "
" "
" "
" "
Yellow clay sandy Little water
" "
" "
Yellow clay & loose yellow lime
mostly loose lime boulders
yellow lime
" "
" "

DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
Yellow lime thin layers of clay
" " "
casing set & cemented in @ 93 ft
Yellow lime dry hole
white lime
" "
" " water 4 gals per min
" "
" "
" "
" "
" "
" " WATER 20 GALS PER MIN
draw down from 55' to 120'
white lime
" "
" "
" "
" "

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
35	170	175	5	white lime well tested same as 145'
36	175	180	5	" "
37	180	185	5	" "
38	185	190	5	" "
39	190	195	5	" "
40	195	200	5	" " Well tested 28 gals from 55 to 150'
41	200	205	5	" " " "
42	205	210	5	" "
43	210	215	5	" "
44	215	220	5	" "
45	220	225	5	" " water tested same as above
46	225	230	5	" "
47	230	[illegible] 240	10	" " Water level down more water tested
48	240	~~250~~	10	" "
49	250	255	5	" "

IOWA GEOLOGICAL SURVEY

In Cooperation with U. S. Geological Survey

W 8416

RECORD OF WELL

Location: 1 mi. N. 1 1/2 mi. E

Town: LE CLAIRE (N E) (S W) :County SCOTT E.

NE NW NW sec. 34 T. 79 N., R. 5 ~~W.~~ Twp.

Well name and number

Owner LE CLAIRE TWP. SCHOOL Address

Tenant Address

Contractor CHESTER J. HOVER Address 2036 FILLMORE ST. DAVENPORT, IOWA.

FRANK ZAPLETAL (DRILLER)

Drillers

Drilling dates Aug. 3-15, 1953

Well data:

Altitudes: Drilling curb feet; Land surface 745 feet

Determined by

Topographic position

Total depth: Reported 255' feet, Measured feet

Drilling method CABLE TOOLS

Hole and casing data 69' 7" OF 6" CASING

Original depth to water 60 ft. above below Date

Source of data

Sources of water: Principal

Others

Production Data

Date				
Static water level	60			
Measuring point				
Pumping water level	60			
Yield (g. p. m.)	40			
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

EM 4-10

Well No. W 8416 Sample range 1-255 No. of samples 48

No. of dupls. and cond. 48 - Good Washed range 45-255

Samples prepared by C. T. Lupal Date 7-8-57

Logged by NORTHUP Date 11/8/57

Correlations by " Date 11/8/57

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	82	41	36	38	N	090	22	19	1

WELL SCHEDULE

US GEOLOGICAL SURVEY

IOWA DISTRICT WRD

WELL NO. 079-05E-34BBA CO. Scott

OWNER LeClaire Township School ADDRESS LeClaire

DRILLER Chester J. Hover DATE DRLD Aug 3-15, 1953

MAP Co Highway

SOURCE OF DATA File

DESCRIPTION M. P. L.S. at ~~FEET~~ (ABOVE) (BELOW) LSD 745

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
	2	079	05	E	34	BBA	08416	11	LE CLAIRE SCH.	C	T	W	1	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.
	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	5 5 3		9 3	6	X	C	9 5 3	1	4 7	S	D	5		7 4 5	7		6 0	D	8 5 3		4 0			0 3				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 ISGS	UNIT	LITH-OLOGY	ORIG.	THICK-NESS	LENGTH WELL OPEN TO	DEPTH TO TOP OF	MINOR AQUIFER SYSTEM	SERIES USGS	SERIES ISGS	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-	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
	1 2	D	2 6	D	F	S	2	N	G		D	6		1 6	2		7	0						7	0	C			Q	2					C

CASING AND SCREEN (SIZE, TYPE, INTERVALS):

69' 7" of 8"

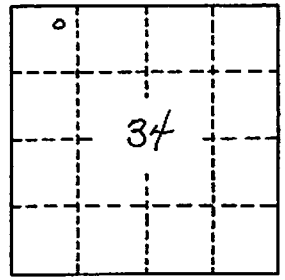
93' of 6" set at 93'

CODED BY K. Wahl DATE 12-10-70

PUNCHED BY AT DATE 3/5/71

VERIFIED BY _____ DATE _____

SKETCH ON REVERSE: YES _____ NO _____



WELL NO. 079-05E-34 BBA