WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD	
Record by D. BARONSON Source of data FILE Date 7/2066 Map 1:63,360 COUNTY NLY	
State IOWA 16 County MAHASKA 62	
Latitude: 34 1 2 7 5 0 N S Longitude: 0 9 2 3 9 0 6 number: 3 Latitude: 3 1 2 7 5 0 N S Longitude: 0 9 2 3 9 0 6 number: 19 Latitude: 3 1 2 7 5 0 N S Longitude: 0 9 2 3 9 0 0 6 number: 19 Latitude: 3 1 2 7 5 0 N S Longitude: 0 9 2 3 9 0 0 6 number: 19 Latitude: 3 1 2 7 5 0 N S	
Local O: 7: 7: 1 6:11:2:41:R: 0:4: Other	
20 37	(a)
233 OF name: New 25747 Declar 2	[1942]
Owner or name: NEW SHARON, IA.	
Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist	
(A) (B) (C) (D) (E) (F) (H) (I) (M) (N) (P) (R) <u>Use of Air cond, Bottling, Comm.</u> , Dawater, Power, Fire, Dom., Irr, Med, Ind, P S, Rec,	
water: (S) (T) (U) (V) (W) (X) (Y) (E) Stock, Instit, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other	
Use of (A) (D) (G) (H) (\$\phi\$) (P) (R) (T) (U) (W) (X) (\$\frac{1}{2}\$) well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed	
DATA AVAILABLE: Well data Freq. W/L meas.: /NVENTORY Field aquifer char. 72	
70 71 Hyd. lab. data;	
Qual. water data; type: COMPLETE "C	
Freq. sampling: IRRE-6494. Fin 6/5/46 T Pumpage inventory: no, period:	
Aperture cards: yes 77	
Log data: GEOLOGIST - DRILLER'S	
WELL-DESCRIPTION CARD	
SAME AS ON MASTER CARD Depth well: 132 ft / 3 2 Meas. percurary co6 24 3	
Depth cased: 86 ft 86 Casing of STEEL; Diam. 16 in 16	
(C) (F) (G) (H) (O) (P) (S) (T) (W) (X) (E) (Finish: concrete, (perf.), (screen), gallery, end, (perf.), screen, sd. pt., shored, open hole, other	
Method (A) (B) (C) (D) (H) (J) (P) (R) (T) (V) (W) (E) Drilled: air bored, cable, dug, hyd jetted, air raverse trenching, drive	We 11
Date Drilled: Oct. 1945 Pump intake setting: ft	No.
Driller: LAYNE WESTERN , AMES, IA.	
Lift (A) (B) (C) (J) multiple	0
(type): air, bucket, cent, jet, (cent.) (turb.) none, piston, rot, submerg, turb, other Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. Trans. or meter no.	77-
Descrip. MP LSD ft below LSD. Alt. MP 85/	16W
QCI Accuracy:	'
Water above 43 above 45	24
Date meas; OCT. 1945 33 0 45 35 Yield: 100 gpm 100 determined A	BAA
Drawdown: 35 ft 35 Accuracy: 3 Pumping poriod hrs] _
62 04	
OUALITY OF	
WATER DATA: Iron 5.6 7 Sulfate 20.4 1 Chloride 3.0 0 Hard. 314 72	
WATER DATA: Iron 5.6 7 Sulfate 20.4 1 Chloride 3.0 0 Hard. 314 7	

La <u>titude-longitude</u>	41	,27	50	S 022	, 39	06 .	3
				- A		-	

HYDROGEOLOGIC CARD
SAME AS ON MASTER CARD Physiographic CENTRAL LOWLAND 12 Section: DISJECTED
THE PLAIN E Brainage SKOUK Z 5 C Subbasin:
(D) (C) (E) (F) (H) (K) (L)
Topo of depression, stream channel, dunes, flat, hilltop, sink, swamp, well site: (0) (P) (S) (T) (U) (V) (V) offshore, pediment, hillside, terrace, undulating, valley flat SIDE HILL 27
MAJOR AQUIFER: PENNSYLVANIAN System series 28 29 aquifer, formation, group 30 31
Lithology: JANDITONE V Origin: MARINE 6 Aquifer Thickness: 55 ft
55 Length of well open to: 29 ft 29 Depth to top of: 60 ft 60
MINOR AQUIFER: MISSISPIANI UPPER MIS ST. COUIS FM. PIL AQUIFER: Question agrice 44 45 aquifer, formation, group 46 47
system series 44 43 aquifer, formation, group Lithology: SUBCIPH LS. & SS Quigin: MARINE 6 Aquifer Thickness: ft
Length of well open to: 17 ft 17 bepth to top of: 1/5 ft 1/5
Intervala Screened: 97-132
Screened: 9/-132
Screened: Depth to consolidated rock: 60 ft 60 Source of data: WELL (UTTIMGS 64 C)
Screened: Depth to consolidated rock: 60 ft 60 Source of data: WELL (UT) MGS 64 C Depth to basement: ft 50 Source of data: WELL (UT) MGS 64 C Surficial Tinfiltration Dags 72 4
Screened: Depth to consolidated rock: 60 ft 60 Source of data: WELL (UTTIMES 64 C)
Screened: Depth to consolidated rock: 60 ft 60 Source of data: WELL (CTTIMGS 64 C basement:
Screened: Depth to consolidated rock: 60 ft 60 Source of data: WELL (CTTINGS 64 C basement:
Screened: Special Source of data: WELL (UT) MGS 64 C
Screened: Depth to consolidated rock: 60 ft 60 Source of data: WELL (CTTINGS 64 C basement:
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IOWA PRESS CLIPPING BUREAU

Des Moines, Iowa

Star

New Sharon, Iowa

Ele alor

vew City Well Going Down-Down

The new city well which is being drilled on the city lot in the south part of town by the Layne-Weston Co. of Ames had reached a depth of 110 feet Wednesday. At a depth of 65 feet they struck sand stone and a 15 inch casing was placed in the well down 85 feet.

According to Mr. Black in charge of the drilling, a test of the amount of water has not been made but he stated it is a very good stream. A 15 inch hole is being drilled to a depth of 150 feet as that is what the contract stipulates. As to the completion of the well he says that it may be completed this week,

It might be interesting to know that the drill, or rather the string of tools, using the term of the drillers weighs about three thousand pounds.

IOWA PRESS CLIPPING BUREAU

Des Moines, Iowa

Star New Sharon, Iowa

Vew City Well Stands 100 Gallon Test Per Minute

The new city well was completed Friday which was drilled to a depth of 132 feet. A test of the well was also made and 100 gallons of water per minute was available. The water line stands at a depth of 60 feet from the top of the well and pumping it at the rate of 100 gallons per minute, lowered the water line down 35 feet to a depth of 95 feet where it stood during the test. The motor was speeded up for a test of 140 gallons per minute and it only lowered the water line two more feet.

The city already have a pump which they purchased two years ago and a new motor has already been ordered as well as some pipe extensions for the pump. A building similar to the one that houses the other well will be built, and work will start on this as soon as labor and material is available.

077-16W-24

IOWA GEOLOGICAL SURVEY In Cooperation with U. S. Geological Survey

RECORD OF WELL
Location:
Town: New Sharon (S W); County Mahaska 24
<u>NE-NE-NW</u> sec. 24 T. 77 N., R. 16 W. Twp +
Well name and number New Sharon City well #2
Owner city of Men Sharon Address
Tenant Address
Contractor Layre Western Co Address ames Box 662
Drillers Jewel Black
Drilling dates 00 15-26 1945
Well data:
Elevations: Drilling curbfeet; Land surface85/feet
Determined by Alt. RKS.
Topographic position side bill
Topographic position <u>Side bill</u>
Topographic position Side bill Total depth: Reported 132 feet, Measured feet
Topographic position Side bill Total depth: Reported 132 feet, Measured feet Drilling method cable tool
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Total depth: Reported 132 feet, Measured feet Drilling method cable tool Holo and casing data 32 feet, Measured feet End of 16" (Give amount, size, kind, and depth of all casing; type and position of seals and packers; cementing; how finished—perforated pipe, screen, 97-/32 ff gravel pack, open hole, etc.) Original depth to water 60 ft. below surface Date
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Total depth: Reported 132 feet, Measured feet Drilling method cable tool Holo and easing data 32/6/5" hole (Give amount, dize, kind, and depth of all casing; type and position of seals and packers; comenting; how finished—perforated pipe, screen, 97-/32 ft gravel pack, open hole, etc.) Original depth to water 60 ft. below surface Date Original elevation of water level ft.; Source of data
Total depth: Reported 132 feet, Measured feet Drilling method cable tool Holo and casing data 32 feet, Measured feet End of 16" (Give amount, size, kind, and depth of all casing; type and position of seals and packers; cementing; how finished—perforated pipe, screen, 97-/32 ff gravel pack, open hole, etc.) Original depth to water 60 ft. below surface Date

A	Date October 1945 Measuring point at						
Specific capacity g.p.m.	per ft. drawdown; Temperature. OI						
	ength Suction pipe Airline						
	g.p.m. for hrs. a c						
WATER ANALYSES	(in parts per million)						
Date sampled June 5,1946	Nov. 19, 1946						
Sampled by F.B. Pfeiffer	B. Pfeilter						
Total solids 370	3/7						
Insoluble matter	10.5						
Alkalinity (Meo) 320	290						
Alkalinity (Phn) none	hone						
рн 8.0	12/2 1.5						
Fe ₂ 0 ₃ + Mn ₂ 0 ₃ +Al ₂ 0 ₃	15.6						
Calcium 85.4	83.8						
Magnesium 22.1	18.9						
Iron (unfiltered)5.6	4.9						
Manganese 0.0	109						
Nitrate 0.0	Siane						
Fluoride 0.4	2						
Chloride 3.0	9.0						
Sulfate 20.4	10,9						
Bicarbonate 390.4	254.0						
Hardness (ppm) 314	296						
Hardness (gpg) /8.3	17.3						
Remarks							
	Sample storage location spls. 26 No. dupls. & cond. 26-6 ed range 60-/37 by PJH efcellent Studied by Strip log strip log Nov 23 1945 El. Correl. by Elchult						

WHEN RECORD S COMPLETED PUT IN ENVELOPE AND MAIL TO DRILLER'S NOTEBOOK

WELL RECORD

ADDRESS 1010 NW 39 Kom way my

OWNER City New Sharph
Address La

RETURN TO
IOWA GEOLOGICAL SURVEY
IOWA CITY, IOWA

HE DIRECTOR

IOWA GEOLOGICAL SURVEY

IOWA CITY, IOWA

DRILLERS NOTE

It is important that a driller's notebook, filled out as completely as possible, be sent to the Iowa Geological Survey at the completion of each hole. A number of drillers have found it convenient to string samples from a single well on a heavy wire and attach the log book to them. A hole has been punched in the log book for this purpose.

Sample sacks and log books will be furnished by the Geological Survey. A copy of the log book will be made and returned if desired by the driller.

SUGGESTIONS TO DRILLERS

- 1. Samples should be taken from each bed passed through, and never more than 5 feet apart, even in the same bed.
- 2. Samples should not be washed, except to remove excess drilling mud, as washed samples may give a wrong idea of the character of the bed.
- 3. Fill out the label on each sample bag with the name of the well and the depth interval which the sample represents.
- 4. Make frequent use of the "Description" column to explain the material being drilled.
- 5. Note depth and thickness of all water-bearing layers.
- 6. Note the quality of the water from each layer: as hard, soft, salty, alkaline, or sulphur bearing.
- 7. Note height to which water from each layer rises in well, and give flow or capacity in gallons per minute.
- 8. Fossils, such as oyster, clam, and other shells, are important and should be placed in bags with the material with which they are found and carefully labeled as to the depth from which they were obtained.
- 9. If you do not understand what is wanted, or desire information on any point, write to the Iowa Geological Survey, Iowa City, Iowa.
- 10. Samples may be boxed and sent to IOWA GEOLOGICAL SURVEY, IOWA CITY, IOWA, EXPRESS COLLEC f.

The Iowa Geological Survey desires to assist and cooperate with owners and drillers in every way possible, and will be glad to answer questions and assist in the solution of problems at any time.

WELL RECORD

$egin{array}{ccc} N & & N & & & & & & & & & & & & & & & $
Well is located miles S and miles S from W
Mew Sharon in Mahasha, (County)
in the
Owner City New Sherowell No. 2
Postoffice address New Harm
Contractor Layere western ex
Addres amel Ja Boy 662
Driller Seuel Black
Well begun 10-15, 1942;
completed 10 - 26 , 1945
Rig used-Cable, Rotary, Jet, or Cable Tool
Depth of well 132 (Feet)
Size of hole (note total amount of each size)
of 15" hole
Main water supply at(Feet below surface)
Final water head 60' flets turface (Feet above or below surface)
Is well pumped?
Yield 100 MP M.
(Ganons per minute)
Water level when pumping 43
Position of well (Upland, valley, side hill, etc.)
(Optatio, tarrey, size and,

RECORD OF PERMANENT CASING

		SOURCE	OF WATER	Production				Depth to	Depth	Type* and	DIAGRAM OF WEL
Date and Time	Water Level	Depth	Type of Rock	in Gallons per Minute	Pumping Level	Size Pipe	Amount of Pipe	Bottom of Pipe	to Top of Pipe	Weight of Pipe	DIAGRAM OF WELL
						_					
										ncrete, etc.	
						Is	screen u	sed?	Pol	Diameter_/	(Inches)
						Le	ngth 35	reet)	Depth	to bottom_	132'
						De	epth to to	p 97	•	Slot size	
_											
						Ki	nd of p	ump		Di	ia
						Ca	pacity of	pump		(anm)	
										and amoun	
						7					feet,
						inc	eluding			f	eet tailpiece.
time	of cha	nge and h mornin	at regula	be recorde r intervals; frilling start drilling.	for	Re	mark on	construct	ion of w	rell 86 d	£16"

	DI	РТН		DESCRIPTION OF BEDS
Sample No.	From	То	THICKNESS	KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ET
	0	10	10	clay early soft
	16	35	25	clay yellow soft
	35	60	25	clay blue soft
	60	65	5'	sandy clay the soft
	65	90	2.5	sant blue Soft 85'
	90	117	27	Sand light flue med
	117	120	3'	lime gray med
	120	132	12	Sand gray Soft fine
		1		
			1	

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