

Water Resources Division Well Schedule Form

MASTER CARD

Record by P. J. Horick Source of data Files Date 9/24/65 Map H. & T.  
 State Iowa County (or town) Kossuth 55  
 Latitude: 43 deg 13 min 06 sec N Longitude: 09 degrees 41 min 28 sec W Sequential number: 1  
 Lat-long accuracy: 2 T 97 S, R 29 W Sec 18, SW  $\frac{1}{4}$ , SW  $\frac{1}{4}$ , NW  $\frac{1}{4}$  SPM  
 Local well number: 09729W18BCC Other number: W-2333  
 Local use: 02333 Owner or name: Lone Rock town  
 Owner or name: LOWE ROCK TOWN Address: Lone Rock, Iowa  
 Ownership: County, Fed Gov't, (M) City Corp or Co, Private, State Agency, Water Dist M  
 Use of water: Air cond, Comm, Dewatering, Fire, Dom, Irr, Ind, (P) S, Stock, Instit, Unused P  
 Use of well: Anode, Drain, Seismic, Obs, Oil-gas, Recharge, Spring, Test, Unused, (W) Withdraw, Waste, Destroyed W  
 DATA AVAILABLE: Well data 2 Freq. W/L meas.: INVENTORY NONE I Field aquifer char.   
 Hyd. lab. data:   
 Qual. water data; type: COMPLETE  
 Freq. sampling: INTERMITTENT I Pumpage inventory: yes  no  period:   
 Aperture cards:  yes   
 Log data: Geologist log G

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 167 ft 167 Meas. rept. 6  
 Depth cased: 156 ft 156 Casing type: STEEL ; Diam. 8 in 8  
 Finish: porous concrete, gravel w. (perf.), (screen), gallery, end, (C) (F) (G) (H) (O) (P) (S) (T) (W) (X) (Z)  
 Method: air bored, (C) cable, dug, hyd jetted, air rot., (A) (B) (C) (D) (H) (J) (P) (R) (T) (V) (W) (Z)  
 Date Drilled: Feb. 1946 946 Pump intake setting:  ft   
 Driller: Knut Bonnicksen, Ringsted, Iowa  
 Lift (type): air, bucket, cent, jet, multiple, (cent.) (L) (M) (N) (P) (R) (S) (T) (Z) Deep  Shallow 40  
 Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P.  Trans. or meter no.   
 Descrip. MP  ft above  below lsd, Alt. MP   
 Alt. LSD: 1214 1214 Accuracy: altimeter 7  
 Water Level 73 ft above MP; 73 ft below lsd Accuracy: rept. 6  
 Date meas: FEB. 1946 246 Yield: 10 gpm 10 Method determined 61  
 Drawdown:  ft Accuracy:  hrs   
 QUALITY OF WATER DATA: Iron 1.5 5 Sulfate 464 7 Chloride 3 0 Hard. 448 7  
 Sp. Conduct 1520 K x 10<sup>6</sup> 5 Temp. 48 °F 48 Date sampled 2/6/60 260  
 Taste, color, etc. SLIGHTLY TURBID WITH SLIGHT YELLOW COLOR OR RECEIPT IN LAB.

97-29W-18 BCC

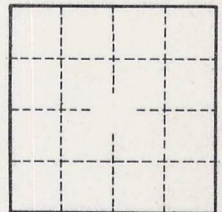
Well Number 43.13.06 094.19.28.1

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: Cent. Low. 12 Section: West. Lake  
 Drainage Basin: DES MOINES 258 Subbasin:   
 Topo of well site: local depression, (F) flat surface, hilltop, hillside, terrace, valley flat, F  
 MAJOR AQUIFER: Devonian, Middle D2 Cedar Valley MIC  
 Lithology: fine dolomite 2D Origin: marine 6 Aquifer Thickness:  ft  
 Length of well open to: 11 ft 11 Depth to top of: 156 ft 156  
 MINOR AQUIFER:  system  series  aquifer, formation, group   
 Lithology:  Origin:  Aquifer Thickness:  ft  
 Length of well open to:  ft  Depth to top of:  ft  
 Intervals Screened:   
 Depth to consolidated rock: 134 ft 134 Source of data: sample log C  
 Depth to basement:  ft  Source of data:   
 Surficial material: sandy till R.T. Infiltration characteristics: poor 4  
 Coefficient Trans:  gpd/Ft  Coefficient Storage:   
 Perm:  gpd/Ft<sup>2</sup>; Spec cap:  gpm/Ft; Number of geologic cards:

Geology:

Pleistocene 0-134'  
 Cretaceous 134-156'  
 Devonian 156-167'



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

RECORD OF WELL


Location:

Town: Lone Rock ( N E. )  
( S W ): County Horseshoe  
SW SW NW sec. 18 T 97 N., R. 29 W. Burt Twp.

Well name and number Lone Rock Town Well (1946)

Owner \_\_\_\_\_ Address \_\_\_\_\_

Tenant \_\_\_\_\_ Address \_\_\_\_\_

Contractor Bonnicksen Address \_\_\_\_\_

Drillers Chalmer Bonnicksen

Drilling dates finished Feb 22, 1946

Well data:

Elevations: Drilling curb 1214 feet; Land surface 1214 feet

Determined by Aneroid by W.E.H & T.C.P.

Topographic position Upland

Total depth: Reported 167 feet, Measured \_\_\_\_\_ feet

Drilling method \_\_\_\_\_

Hole and casing data 156 ft of 8-inch pipe

Original depth to water \_\_\_\_\_ above \_\_\_\_\_ ft. below \_\_\_\_\_ Date \_\_\_\_\_

Original elevation of water level \_\_\_\_\_ ft.; Source of data \_\_\_\_\_

Sources of water: Principal S.C.; Others \_\_\_\_\_



Production data:

Date \_\_\_\_\_

Static depth to water \_\_\_\_\_

Measuring point \_\_\_\_\_

Pumping level \_\_\_\_\_

at \_\_\_\_\_

g.p.m.

Specific capacity \_\_\_\_\_

g.p.m. per ft. drawdown; Temperature \_\_\_\_\_

°F.

Pump data: Type pump \_\_\_\_\_

Column Dia. \_\_\_\_\_

Length \_\_\_\_\_

Cylinder or bowls: Dia. \_\_\_\_\_

Length \_\_\_\_\_

Suction pipe \_\_\_\_\_

Power \_\_\_\_\_

Airline \_\_\_\_\_

Estimated rate of production: \_\_\_\_\_

g.p.m. for \_\_\_\_\_

hrs. a day

Use of water \_\_\_\_\_

WATER ANALYSES (in parts per million)

Date samples \_\_\_\_\_

Sampled by \_\_\_\_\_

Total solids \_\_\_\_\_

Insoluble matter \_\_\_\_\_

Alkalinity (Meo) \_\_\_\_\_

Alkalinity (Phn) \_\_\_\_\_

pH \_\_\_\_\_

Fe<sub>2</sub>O<sub>3</sub> + Mn<sub>2</sub>O<sub>3</sub> + Al<sub>2</sub>O<sub>3</sub> \_\_\_\_\_

Alkali as sodium \_\_\_\_\_

Calcium \_\_\_\_\_

Magnesium \_\_\_\_\_

Iron (unfiltered) \_\_\_\_\_

Manganese \_\_\_\_\_

Nitrate \_\_\_\_\_

Fluoride \_\_\_\_\_

Chloride \_\_\_\_\_

Sulfate \_\_\_\_\_

Bicarbonate \_\_\_\_\_

Hardness (ppm) \_\_\_\_\_

Hardness (gpg) \_\_\_\_\_

Remarks \_\_\_\_\_

Laboratory data:

Sample storage location \_\_\_\_\_

Sample range \_\_\_\_\_

0-165

No. spls. \_\_\_\_\_

27

No. dupls. & cond. \_\_\_\_\_

27 F

Spls. prepared by \_\_\_\_\_

DG+SP

Washed range \_\_\_\_\_

130-165

by \_\_\_\_\_

S.P.

Driller's log and cond. \_\_\_\_\_

Insoluble residues: Prepared by \_\_\_\_\_

Studied by \_\_\_\_\_

Strip log \_\_\_\_\_

Microscopic study \_\_\_\_\_

0-167

strip log \_\_\_\_\_

July 20, 1996 cl.

Gen. log \_\_\_\_\_

Correl. by \_\_\_\_\_

E. Schultz