WELL RECORD FORM

76063

PWSID# or PWTS No. _____ PWTS Permit No. _____ GeoSam WNumber (IGS use only) _____

Site Identification

Property owner Ft Dodge Other ID 20

Address _____ City Ft Dodge

Tenant _____

Well depth 1948 ft Date completed 6/11/13

Drill Method

☒ Rotary ☐ Auger ☐ Cable ☐ Other _____

Hole size

34 inch from 0 ft to 93 ft

28 inch from 93 ft to 581 ft

hole size continued

23 inch from 581 ft to 1512 ft

16 inch from 1512 ft to 1948 ft

Location

County Webster

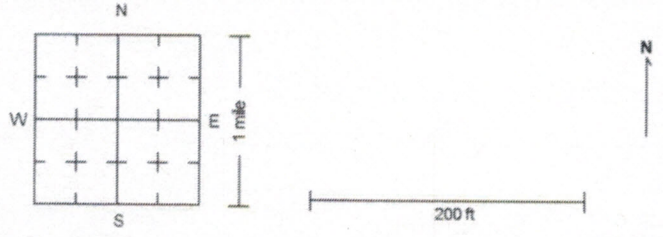
GPS coordinates (NAD83 datum)

N 42° 29' 29.4" Latitude W 94° 10' 55.1" Longitude

☐ Decimal Degrees ☐ Degrees, Decimal Minutes ☒ Degrees, Minutes, Seconds

_____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RNG _____ E W

Show exact location of well in section grid with a dot (•). Sketch map of well location on property.



Casing or Loop Pipe

Record all depth measurements from ground level (GL). Use + for above GL measurements.

Size (in)	Material	Depth Top	Depth Bottom	Perforated	Slotted	Screen
30	Steel	GL	93	☐	☐	☐ slot size _____
24	Steel	+4	581	☐	☐	☐ slot size _____
18	Steel	581	1512	☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____

☐ Gravel packed amount _____ variety _____

☐ Seals/packers type _____

☐ Bottom capped with _____

Formation Log

From	To	Color	Hardness	Formation description
				(use additional sheets as needed)

Casing Grout

Placement method _____

Type	Depth Top	Depth Bottom	Amount (vol/wt)
neat cement	0	93	
neat cement	0	1512	

Pump Installation

Date 10/28/13

Type of pump VERTICAL TURBINE Depth to intake 310 ft

Pump diameter 14 in Rated capacity 2000 GPM

Water Information

Date 8/7/13

Static Water Level	Pumping Water Level	Yield	Duration
142 ft	268 ft	2000 GPM	24 hrs

Water level measurement: ☐ Sonic ☐ Tape ☒ Airline ☐ E-line ☐ Estimate

Water yield measurement: ☐ Orifice ☒ Volumetric ☐ Estimate

Main water-supply zone from 1771 ft to 1821 ft below GL

Well Development

☒ Physical explain: Air lift + Pump

☐ Chemical explain: _____

Remarks (including depth of lost drilling fluids, materials, or tools)

Contractor

Company Grosch Irrigation Co.

Address 114 N 6th St O'Neill NE

Driller Scott Grosch Certification no. 6743

Well Use

☐ Domestic ☒ Public supply ☐ Livestock

☐ Heat pump ☐ Commercial ☐ Irrigation

# of borehole(s) ____ ☐ Monitoring ☐ Other _____

IGS IHR Hydroscience & Engineering — The University of Iowa

Mail form to **Iowa Department of Natural Resources**: 502 E. 9th St., Des Moines, IA 50319-0034

Or click here to e-mail form to: well.records@dnr.iowa.gov

Make copies for: **well contractor, customer, and county health department**

DNR

Rev. 2017 DNR Form 542-8170

76063

GROSCH DRILLING COMPANY

3110 33rd Rd
P.O. BOX 337
SILVER CREEK, NE 68663

City of Fort Dodge, IA
Jordan Well #20
1421 12th Avenue SW

GPS Coordinates:
N 42' 29' 29.4"
W 97' 10' 55.1"

Lithology Log

0'-4' – top soil and clay
4'-9' – brown clay
9'-45' – sand & gravel
45'-49' – gray sandy clay
49'-59' – dark gray clay
59'-64' – hard gray shale
64'-72' – light gray clay
72'-89' – red clay
89'-111' – white limestone
111'-446' – gray & tan dolomite w/ shale streaks
446'-498' – gray dolomite w/ shale streaks
498'-511' – light blue shale
511'-541' – dark brown & gray mud stone
541'-603' – tan dolomite w/ shale streaks
603'-620' – limestone & gray dolomite
620'-812' – tan & gray dolomite
812'-942' – gray dolomite
942'-977' – brown dolomite
977'-1100' – tan dolomite w/ shale streaks
1100'-1124' – tan dolomite & green shale streaks
1124'-1291' – tan dolomite
1291'-1379' – gray dolomite w/ green shale streaks
1379'-1401' – green shale
1401'-1407' – tan sandstone
1407'-1415' – green shale
1415'-1465' – tan sandstone (soft) (St Peter)
1465'-1520' – tan dolomite
1520'-1555' – tan & brown sandstone
1555'-1581' – tan & gray dolomite w/ blue green chips
1581'-1771' – tan dolomite
1771'-1821' – light brown sandstone (Jordan Sand)
1821'-1947' – brown & gray dolomite

DRILLERS
MIKE FRITTON OPER #6742
MARK EVENS OPER #2392
SCOTT GROSCH OPER #6743

GROSCH DRILLING COMPANY
SILVER CREEK, NEBRASKA

COMPLETION DATE: 6-11-13
LOCATION
N 42° 29' 22.4" W 97° 10' 55.1"
76063

FINAL "AS BUILT" DESIGN FOR JORDAN WELL #20

WELL OWNER
CITY OF FORT DODGE, IOWA

