

50 H.P. Motor & Pump
salvaged from south
well on Sanford St.

ERDMAN Eng
Verify 1-19-93

Floor Elev = 860.00'

#6
Well

Static level 13.0'
below top casing

Fine
sand
and
silt

Pumping level @
555 G.P.M. @ -39'

Fine Sand

Coarse Sand
& Gravel

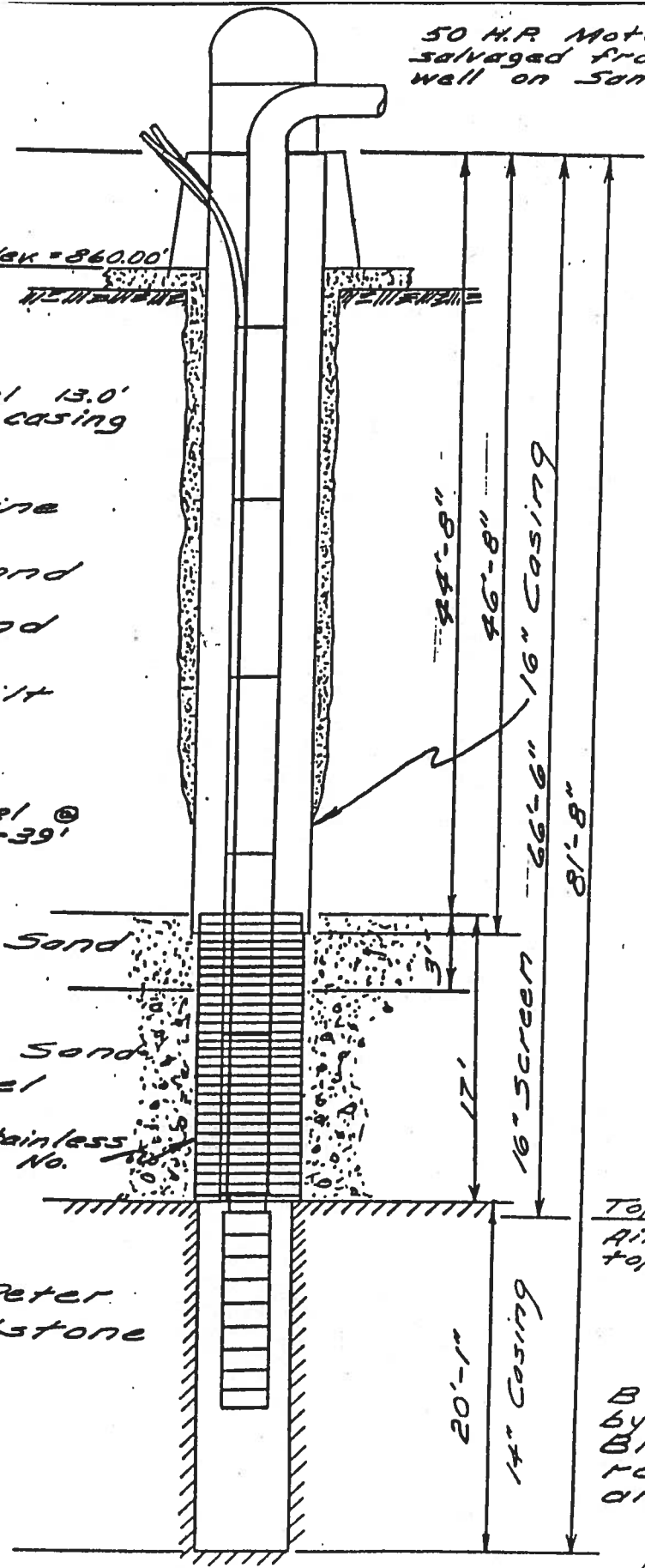
17 ft. of 16" Stainless
steel screen No. A
55 slot

St. Peter
Sandstone

Top Bowls
Airline ends
top bowls

Built 1972
by Nelson
Bros. using
rotary &
air

Well #6 (DNR)



ERDMAN ENGINEERING SERVICE DECORAH, IOWA	
DRAWN BY: L.C.E.	SCALE: None
REVISED:	DATE: 4-5-83

WELL NO. #6 (Formerly #
DECORAH, IOWA
West Side of Mill Street

Municipal Water-Supply Inventory

DATA FOR: DECORAH #6
WNUMBER: 39056

PWSID\SEQ#: 9630012- 5
USGS ID: 431828091473201

GENERAL INFORMATION

LOCATION: T 98N R 8W Sec 16NESWNWSW COUNTY: WINNESHIEK
TOPOGRAPHIC MAP: DECORAH
ELEVATION: 855 feet SITE TYPE: Drilled hole TOTAL DEPTH: 82 feet BEDROCK DEPTH: 62 feet
DRILLER: [75] Nelson Bros. DRILL DATE: 01/01/72 DRILLING METHOD: Rotary
WELL TYPE: Municipal WELL DEPTH: 81.67 feet AQUIFER: Alluvium
Cambrian/Ordovician

STATUS: Primary ON LINE: / / ABANDONED: / / PLUGGED: / /
LOG TYPE: Drillers log LOG QUALITY: Fair SAMPLE TYPE: BEDROCK DEPTH: 62 feet STRIP LOG BY:
LOG TYPE2: LOG QUALITY2: BASIN: 7060002
STRIP LOG DATE: / /
SUPPLY PERCENT: 22.50%

COMMENTS:

1987 SCREEN CLEANED, INCREASING CAPACITY SLIGHTLY
**14" CASING SET 20' INTO ST. PETER SANDSTONE (61.67'-81.67'); PUMP IS SET
INSIDE THIS CASING**
**ST. PETER SANDSTONE PRESUMED TO BE SUPPLYING WATER TO THIS WELL THROUGH
THE BOTTOM OF THE 14" CASING**
DEPTH ALSO REPORTED 70', 78', 82.25', 82'

EDIT DATE: 11/01/01

VULNERABILITY: 1

LOCATION: 100' WEST OF N. MILLS ST. & 40' SOUTH OF DIKE; ~180' WEST OF #5

WELL CONSTRUCTION DATA FOR DECORAH #6

HOLE SCHEDULE: WELL CONSTRUCTION DATE: 01/01/72

CASING SCHEDULE:
(1) Diameter: 16 inches Type: Depth top: feet Depth bottom: 47 feet Amount:
(2) Diameter: 14 inches Type: Depth top: 62 feet Depth bottom: 82 feet Amount:

GROUT SCHEDULE:

SCREEN OR PERFORATED CASING SCHEDULE:
(1) Diameter: 16 inches Slot: inches Depth top: 45
feet Depth bottom: 62 feet Amount: feet

GRAVEL-PACKED: True Gravel-packed top: feet Gravel-packed bottom: feet

PUMP SCHEDULE:
Pump type: TURB Diameter: inches Depth to intake: feet
Rated capacity: gpm

COMMENTS:

HYDROGEOLOGIC INFORMATION FOR DECORAH #6

Municipal Water-Supply Inventory

MAIN WATER:
Main water top: 0 feet Main water bottom: 0 feet Pump rating: 430 gpm Pump yield: 0 gpm

DATE PUMPED: 01/01/83 TIME PUMPED:
STATIC WATER LEVEL: 13.0 feet PUMPING WATER LEVEL: 39.0 feet YIELD:
555.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:

DATE PUMPED: 10/28/97 TIME PUMPED: 1:00
STATIC WATER LEVEL: 19.4 feet PUMPING WATER LEVEL: 43.8 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:

Data from source water files 6/26/2001.

DATE PUMPED: 08/19/98 TIME PUMPED: 1:35
STATIC WATER LEVEL: 15.0 feet PUMPING WATER LEVEL: 42.2 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:

Data from source water files 6/26/2001.

DATE PUMPED: 09/23/98 TIME PUMPED:
STATIC WATER LEVEL: 15.9 feet PUMPING WATER LEVEL: 41.6 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:

Data from source water files 6/26/2001.

DATE PUMPED: 02/01/99 TIME PUMPED:
STATIC WATER LEVEL: 16.4 feet PUMPING WATER LEVEL: 42.8 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:

Data from source water files 6/26/2001.

Municipal Water-Supply Inventory

DATE PUMPED: 09/01/99 TIME PUMPED: 1:20
STATIC WATER LEVEL: 15.8 feet PUMPING WATER LEVEL: 42.2 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:
Data from source water files 6/26/2001.

DATE PUMPED: 10/13/99 TIME PUMPED:
STATIC WATER LEVEL: 15.5 feet PUMPING WATER LEVEL: 42.2 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:
Data from source water files 6/26/2001.

DATE PUMPED: 11/23/99 TIME PUMPED: 2:20
STATIC WATER LEVEL: 15.7 feet PUMPING WATER LEVEL: 42.6 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:
Data from source water files 6/26/2001.

DATE PUMPED: 05/05/00 TIME PUMPED: 8:45
STATIC WATER LEVEL: 16.2 feet PUMPING WATER LEVEL: 45.0 feet YIELD:
0.0 gpm DURATION: 0:20
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:
Data from source water files 6/26/2001.

DATE PUMPED: 05/17/00 TIME PUMPED:
STATIC WATER LEVEL: 16.5 feet PUMPING WATER LEVEL: 45.1 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:

Municipal Water-Supply Inventory

Data from source water files 6/26/2001.

DATE PUMPED: 08/09/00 TIME PUMPED:
STATIC WATER LEVEL: 14.7 feet PUMPING WATER LEVEL: 43.0 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:
Data from source water files 6/26/2001.

DATE PUMPED: 12/13/00 TIME PUMPED:
STATIC WATER LEVEL: 14.5 feet PUMPING WATER LEVEL: 42.4 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:
Data from source water files 6/26/2001.

DATE PUMPED: 01/24/01 TIME PUMPED:
STATIC WATER LEVEL: 16.2 feet PUMPING WATER LEVEL: 42.9 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:
Data from source water files 6/26/2001.

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DRILLER'S LOG FOR DECORAH #6

0'-44.67' fine sand & silt
44.67'-47.67' fine sand
47.67'-61.67' coarse sand & gravel
61.67'-81.67' St. Peter Sandstone

Municipal Water-Supply Inventory

FIELD DATA

DATE OF COLLECTION: 07/19/94 TIME: 11:20 COLLECTOR: MINERAL NUMBER: 0
 SOURCE: 1972Decorah 6
 SAMPLING POINT:
 WAS SAMPLE FREE TURBIDITY WHEN COLLECTED? No IS A POLYPHOSPHATE BEING USED?
 No
 TEMPERATURE: 12.0 C pH: 7.400 ALKALINITY mg/l CaCO3 P: ----- mg/l T: ----- mg/l
 SPECIFIC CONDUCTANCE: 634.000 micromhos HOURS PUMPED: 0:45
 PUMPING RATED: 425.000 gpm

LABORATORY ANALYSIS

SPECIFIC CONDUCTANCE: 610.000 micromhos pH: 7.200 SILICA (SiO2):
 ----- mg/l
 SOLUABLE IRON (Fe): ----- mg/l TOTAL IRON (Fe):
 ----- mg/l
 FILTERABLE RESIDUE: 378.000 mg/l TOTAL RESIDUE:
 ----- mg/l
 HARDNESS as CaCO3: 320.000 mg/l
 ALKALINITY mg/l CaCO3 P: ----- mg/l T: 270.000 mg/l

CATIONS (mg/l):

 POTASSIUM (K+): -----
 SODIUM (Na+): -----
 CALCIUM (Ca++): -----
 MAGNESIUM (Mg++): -----
 MANGANESE (Mn++) soluble: -----
 MANGANESE (Mn++) total: -----

ANIONS (mg/l)

 NITRATE (NO3-): 11.250
 FLUORIDE (F-): -----
 CHLORIDE (Cl-): -----
 SULFATE (SO4--): -----
 BICARBONATE (HCO3-): -----
 CARBONATE (CO3--): -----

TRACE METALS (mg/l)

 ARSENIC (As): -----
 BARIUM (Ba): -----
 CADMIUM (Cd): -----
 CHROMIUM (Cr): -----
 COPPER (Cu): -----
 LEAD (Pb): -----
 MERCURY (Hg): -----
 SELENIUM (Se): -----
 SILVER (Ag): -----
 ZINC (Zn): -----

RADIOACTIVITY (pCi/l)

 GROSS ALPHA: -----
 226RADIUM: -----
 228RADIUM: -----
 GROSS BETA: -----
 90STRONTIUM: -----
 222RADON: -----

COMMENTS:

FROM THE MINERAL ANALYSIS

FIELD DATA:
 Pump period: >45 min

WATER QUALITY INFORMATION

FIELD DATA

DATE OF COLLECTION: 07/19/94 TIME: 11:25 COLLECTOR: MINERAL NUMBER: 0
 SOURCE: 1972Decorah 6
 SAMPLING POINT:
 WAS SAMPLE FREE TURBIDITY WHEN COLLECTED? No IS A POLYPHOSPHATE BEING USED?
 No
 TEMPERATURE: 0.0 C pH: 0.000 ALKALINITY mg/l CaCO3 P: ----- mg/l T: ----- mg/l
 SPECIFIC CONDUCTANCE: ----- micromhos HOURS PUMPED:
 PUMPING RATED: 0.000 gpm

Municipal Water-Supply Inventory

LABORATORY ANALYSIS

SPECIFIC CONDUCTANCE: ----- micromhos pH: 0.000 SILICA (SiO2):
 ----- mg/l
 SOLUABLE IRON (Fe): ----- mg/l TOTAL IRON (Fe):
 ----- mg/l
 FILTERABLE RESIDUE: ----- mg/l TOTAL RESIDUE:
 ----- mg/l
 HARDNESS as CaCO3: ----- mg/l
 ALKALINITY mg/l CaCO3 P: ----- mg/l T: ----- mg/l

CATIONS (mg/l):

ANIONS (mg/l)

POTASSIUM (K+): -----
 SODIUM (Na+): -----
 CALCIUM (Ca++): -----
 MAGNESIUM (Mg++): -----
 MANGANESE (Mn++) soluble: -----
 MANGANESE (Mn++) total: -----

NITRATE (NO3-): 10.800
 FLUORIDE (F-): -----
 CHLORIDE (Cl-): -----
 SULFATE (SO4--): -----
 BICARBONATE (HCO3-): -----
 CARBONATE (CO3--): -----

TRACE METALS (mg/l)

RADIOACTIVITY (pCi/l)

ARSENIC (As): -----
 BARIUM (Ba): -----
 CADMIUM (Cd): -----
 CHROMIUM (Cr): -----
 COPPER (Cu): -----
 LEAD (Pb): -----
 MERCURY (Hg): -----
 SELENIUM (Se): -----
 SILVER (Ag): -----
 ZINC (Zn): -----

GROSS ALPHA: -----
 226RADIUM: -----
 228RADIUM: -----
 GROSS BETA: -----
 90STRONTIUM: -----
 222RADON: -----

COMMENTS:

WATER QUALITY INFORMATION

FIELD DATA

DATE OF COLLECTION: 08/25/95 TIME: 11:00 COLLECTOR: MINERAL NUMBER: 0
 SOURCE: 1972Decorah 6
 SAMPLING POINT:
 WAS SAMPLE FREE TURBIDITY WHEN COLLECTED? No IS A POLYPHOSPHATE BEING USED?
 No
 TEMPERATURE: 13.5 C pH: 7.200 ALKALINITY mg/l CaCO3 P: ----- mg/l T: ----- mg/l
 SPECIFIC CONDUCTANCE: 568.000 micromhos HOURS PUMPED: 0:30
 PUMPING RATED: 300.000 gpm

LABORATORY ANALYSIS

SPECIFIC CONDUCTANCE: 680.000 micromhos pH: 7.600 SILICA (SiO2):
 13.000 mg/l
 SOLUABLE IRON (Fe): 0.030 mg/l TOTAL IRON (Fe):
 ----- mg/l
 FILTERABLE RESIDUE: 340.000 mg/l TOTAL RESIDUE:
 362.000 mg/l
 HARDNESS as CaCO3: 330.000 mg/l
 ALKALINITY mg/l CaCO3 P: ----- mg/l T: 270.000 mg/l

CATIONS (mg/l):

ANIONS (mg/l)

POTASSIUM (K+): 2.200
 SODIUM (Na+): 8.200
 CALCIUM (Ca++): 100.000
 MAGNESIUM (Mg++): 20.000

NITRATE (NO3-): 13.500
 FLUORIDE (F-): 0.100
 CHLORIDE (Cl-): 17.000
 SULFATE (SO4--): 26.000

Municipal Water-Supply Inventory

MANGANESE (Mn++) soluble: <0.020
MANGANESE (Mn++) total: -----

BICARBONATE (HCO3-): -----
CARBONATE (CO3--): -----

TRACE METALS (mg/l)

RADIOACTIVITY (pCi/l)

ARSENIC (As): -----
BARIUM (Ba): -----
CADMIUM (Cd): -----
CHROMIUM (Cr): -----
COPPER (Cu): -----
LEAD (Pb): -----
MERCURY (Hg): -----
SELENIUM (Se): -----
SILVER (Ag): -----
ZINC (Zn): -----

GROSS ALPHA: -----
226RADIUM: -----
228RADIUM: -----
GROSS BETA: -----
90STRONTIUM: -----
222RADON: -----

COMMENTS:

WATER QUALITY INFORMATION

FIELD DATA

DATE OF COLLECTION: 08/25/95 TIME: 11:01 COLLECTOR: MINERAL NUMBER: 0
SOURCE: 1972Decorah 6
SAMPLING POINT:
WAS SAMPLE FREE TURBIDITY WHEN COLLECTED? No IS A POLYPHOSPHATE BEING USED?
No
TEMPERATURE: 13.5 C pH: 7.200 ALKALINITY mg/l CaCO3 P: ----- mg/l T: ----- mg/l
SPECIFIC CONDUCTANCE: 568.000 micromhos HOURS PUMPED: 0:30
PUMPING RATED: 300.000 gpm

LABORATORY ANALYSIS

SPECIFIC CONDUCTANCE: ----- micromhos pH: 0.000 SILICA (SiO2):
----- mg/l
SOLUBLE IRON (Fe): ----- mg/l TOTAL IRON (Fe):
----- mg/l
FILTERABLE RESIDUE: ----- mg/l TOTAL RESIDUE:
----- mg/l
HARDNESS as CaCO3: ----- mg/l
ALKALINITY mg/l CaCO3 P: ----- mg/l T: ----- mg/l

CATIONS (mg/l):

ANIONS (mg/l)

POTASSIUM (K+): -----
SODIUM (Na+): -----
CALCIUM (Ca++): -----
MAGNESIUM (Mg++): -----
MANGANESE (Mn++) soluble: -----
MANGANESE (Mn++) total: -----

NITRATE (NO3-): -----
FLUORIDE (F-): -----
CHLORIDE (Cl-): -----
SULFATE (SO4--): -----
BICARBONATE (HCO3-): -----
CARBONATE (CO3--): -----

TRACE METALS (mg/l)

RADIOACTIVITY (pCi/l)

ARSENIC (As): -----
BARIUM (Ba): -----
CADMIUM (Cd): -----
CHROMIUM (Cr): -----
COPPER (Cu): -----
LEAD (Pb): -----
MERCURY (Hg): -----
SELENIUM (Se): -----
SILVER (Ag): -----
ZINC (Zn): -----

GROSS ALPHA: -----
226RADIUM: -----
228RADIUM: -----
GROSS BETA: -----
90STRONTIUM: -----
222RADON: -----

COMMENTS:

WATER QUALITY INFORMATION

Municipal Water-Supply Inventory

CADMIUM (Cd):	-----	228RADIUM:	-----
CHROMIUM (Cr):	-----	GROSS BETA:	-----
COPPER (Cu):	-----	90STRONTIUM:	-----
LEAD (Pb):	-----		
MERCURY (Hg):	-----	222RADON:	-----
SELENIUM (Se):	-----		
SILVER (Ag):	-----		
ZINC (Zn):	-----		

COMMENTS: