



ERDMAN ENGINEERING SERVICE
DECORAH, IOWA

DRAWN BY: T.L.R. SCALE: No Scale

REVISED: DATE: 4-6-83

WELL No. 7
DECORAH, IOWA
Northeast of City Hall

Municipal Water-Supply Inventory

DATA FOR: DECORAH #7
 WNUMBER: 39057

PWSID\SEQ#: 9630012- 6
 USGS ID: 431829091472001

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GENERAL INFORMATION

LOCATION: T 98N R 8W Sec 16NESWNESE COUNTY: WINNESHIEK
 TOPOGRAPHIC MAP: DECORAH
 ELEVATION: 855 feet SITE TYPE: Drilled hole TOTAL DEPTH: 70 feet BEDROCK DEPTH: 50 feet
 DRILLER: [107] Varner Well Co. DRILL DATE: 01/01/80 DRILLING METHOD: Cable
 WELL TYPE: Municipal WELL DEPTH: 50.00 feet AQUIFER: Alluvium

STATUS: Standby ON LINE: / / ABANDONED: / / PLUGGED: / /
 LOG TYPE: Drillers log LOG QUALITY: Fair SAMPLE TYPE: BEDROCK DEPTH: 50 feet STRIP LOG BY:
 LOG TYPE2: LOG QUALITY2: BASIN: 7060002

COMMENTS: STRIP LOG DATE: / /
 SUPPLY PERCENT: 5.00%

14" CASING SET 20' INTO ST. PETER SANDSTONE (50'-70'); PUMP IS SET INSIDE THIS CASING
 *ST. PETER SANDSTONE IS PRESUMED NOT TO BE SUPPLYING WATER TO THIS WELL BECAUSE THE ST. PETER IS CASED OUT WITH A PLUG IN THE BOTTOM OF THE WELL**
 DEPTH ALSO REPORTED 72', 75'
 DATE ALSO REPORTED 1979

EDIT DATE: 11/01/01

VULNERABILITY: 1

LOCATION: EAST OF CITY HALL, NEAR BALL DIAMOND, SOUTH OF DIKE

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WELL CONSTRUCTION DATA FOR DECORAH #7

HOLE SCHEDULE: WELL CONSTRUCTION DATE: 01/01/80

CASING SCHEDULE:
 (1) Diameter: 16 inches Type: Depth top: feet Depth bottom: 35 feet Amount:
 (2) Diameter: 14 inches Type: Depth top: 50 feet Depth bottom: 70 feet Amount:

GROUT SCHEDULE:

SCREEN OR PERFORATED CASING SCHEDULE:
 (1) Diameter: 16 inches Slot: inches Depth top: 35
 feet Depth bottom: 50 feet Amount: feet

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

PUMP SCHEDULE:
 Pump type: TURB Diameter: 10 inches Depth to intake: feet
 Rated capacity: 10 gpm

COMMENTS:
 Reportedly not gravel-packed.
 Concrete plug 68'-70'

Municipal Water-Supply Inventory

HYDROGEOLOGIC INFORMATION FOR DECORAH #7

MAIN WATER:
Main water top: 0 feet Main water bottom: 0 feet Pump rating: 305 gpm Pump yield: 470 gpm

DATE PUMPED: 01/01/83 TIME PUMPED:
STATIC WATER LEVEL: 10.0 feet PUMPING WATER LEVEL: 26.0 feet YIELD:
500.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:

DATE PUMPED: 10/28/97 TIME PUMPED: 11:30
STATIC WATER LEVEL: 12.7 feet PUMPING WATER LEVEL: 21.5 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: 2:00
STATIC WATER LEVEL: 12.5 feet PUMPING WATER LEVEL: 27.3 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: 12.6 feet PUMPING WATER LEVEL: 22.2 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: 02/01/99 TIME PUMPED:
STATIC WATER LEVEL: 12.6 feet PUMPING WATER LEVEL: 0.0 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

Municipal Water-Supply Inventory

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

DATE PUMPED: 08/31/99 TIME PUMPED: 8:00
STATIC WATER LEVEL: 11.3 feet PUMPING WATER LEVEL: 30.9 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

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

DATE PUMPED: 10/13/99 TIME PUMPED:
STATIC WATER LEVEL: 12.4 feet PUMPING WATER LEVEL: 31.6 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: 11/23/99 TIME PUMPED: 2:55
STATIC WATER LEVEL: 12.6 feet PUMPING WATER LEVEL: 30.2 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: 05/05/00 TIME PUMPED: 8:45
STATIC WATER LEVEL: 12.9 feet PUMPING WATER LEVEL: 31.7 feet YIELD:
0.0 gpm DURATION: 0:25
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:

Municipal Water-Supply Inventory

STATIC WATER LEVEL: 13.0 feet PUMPING WATER LEVEL: 32.5 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: 06/28/00 TIME PUMPED:
STATIC WATER LEVEL: 10.6 feet PUMPING WATER LEVEL: 29.4 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: 08/09/00 TIME PUMPED:
STATIC WATER LEVEL: 11.6 feet PUMPING WATER LEVEL: 30.5 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: 09/21/00 TIME PUMPED:
STATIC WATER LEVEL: 12.5 feet PUMPING WATER LEVEL: 33.1 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: 12.1 feet PUMPING WATER LEVEL: 32.4 feet YIELD:
0.0 gpm DURATION:
AQUIFER PUMPED: Alluvium PUMP TEST: False PUMP METHOD:
MEASUREMENT:

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

Municipal Water-Supply Inventory

DATE PUMPED: 01/24/01 TIME PUMPED:
STATIC WATER LEVEL: 12.8 feet PUMPING WATER LEVEL: 32.1 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 #7

0'-35' fine sand and silt
35'-50' coarse sand & gravel
50'-70' St. Peter Sandstone

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WATER QUALITY DATA FOR DECORAH #7

WATER QUALITY INFORMATION

FIELD DATA

DATE OF COLLECTION: 07/22/80 TIME: COLLECTOR: David Pahlas MINERAL NUMBER: 16421
SOURCE: raw
SAMPLING POINT: well #7
WAS SAMPLE FREE TURBIDITY WHEN COLLECTED? Yes IS A POLYPHOSPHATE BEING USED?
No
TEMPERATURE: 11.0 C pH: 0.000 ALKALINITY mg/l CaCO3 P: ----- mg/l T: ----- mg/l
SPECIFIC CONDUCTANCE: ----- micromhos HOURS PUMPED: 0:45
PUMPING RATED: 500.000 gpm

LABORATORY ANALYSIS

SPECIFIC CONDUCTANCE: 740.000 micromhos pH: 7.500 SILICA (SiO2):
15.000 mg/l
SOLUBLE IRON (Fe): 0.100 mg/l TOTAL IRON (Fe):
0.100 mg/l
FILTERABLE RESIDUE: 454.000 mg/l TOTAL RESIDUE:
454.000 mg/l
HARDNESS as CaCO3: 371.000 mg/l
ALKALINITY mg/l CaCO3 P: 0.000 mg/l T: 306.000 mg/l

CATIONS (mg/l):

POTASSIUM (K+): 2.300

ANIONS (mg/l)

NITRATE (NO3-): 4.400

Municipal Water-Supply Inventory

SODIUM (Na+):	13.000	FLUORIDE (F-):	0.900
CALCIUM (Ca++):	110.000	CHLORIDE (Cl-):	29.000
MAGNESIUM (Mg++):	21.000	SULFATE (SO4--):	44.000
MANGANESE (Mn++) soluble:	<0.010	BICARBONATE (HCO3-):	373.000
MANGANESE (Mn++) total:	-----	CARBONATE (CO3--):	0.000

TRACE METALS (mg/l)

RADIOACTIVITY (pCi/l)

ARSENIC (As):	<0.010
BARIUM (Ba):	0.100
CADMIUM (Cd):	<0.001
CHROMIUM (Cr):	<0.010
COPPER (Cu):	0.200
LEAD (Pb):	<0.010
MERCURY (Hg):	<0.001
SELENIUM (Se):	<0.010
SILVER (Ag):	<0.010
ZINC (Zn):	0.070

GROSS ALPHA:	1.400
226RADIUM:	-----
228RADIUM:	-----
GROSS BETA:	4.000
90STRONTIUM:	-----
222RADON:	-----

COMMENTS:

FROM THE MINERAL ANALYSIS

WELL DATA:
 Well Number: 7
 Date of Construction: 1979
 Depth: 70 ft.

WATER QUALITY INFORMATION

 FIELD DATA

DATE OF COLLECTION: 08/24/90	TIME: 8:30	COLLECTOR:	MINERAL NUMBER: 0
SOURCE: 1980DECORAH 7			
SAMPLING POINT:			
WAS SAMPLE FREE TURBIDITY WHEN COLLECTED? No		IS A POLYPHOSPHATE BEING USED?	
TEMPERATURE: 14.0 C	pH: 7.200	ALKALINITY mg/l CaCO3 P: -----	mg/l T: ----- mg/l
SPECIFIC CONDUCTANCE: 695.000 micromhos		HOURS PUMPED: 0:15	
PUMPING RATED: 400.000 gpm			

 LABORATORY ANALYSIS

SPECIFIC CONDUCTANCE: 720.000 micromhos	pH: 7.300	SILICA (SiO2):
13.000 mg/l		
SOLUBLE IRON (Fe): <0.020 mg/l		TOTAL IRON (Fe):
----- mg/l		
FILTERABLE RESIDUE: 404.000 mg/l		TOTAL RESIDUE:
407.000 mg/l		
HARDNESS as CaCO3: 370.000 mg/l		
ALKALINITY mg/l CaCO3 P: -----	mg/l T: 293.000 mg/l	

CATIONS (mg/l):

ANIONS (mg/l)

POTASSIUM (K+):	3.300
SODIUM (Na+):	11.000
CALCIUM (Ca++):	110.000
MAGNESIUM (Mg++):	24.000
MANGANESE (Mn++) soluble:	<0.020
MANGANESE (Mn++) total:	-----

NITRATE (NO3-):	9.000
FLUORIDE (F-):	0.100
CHLORIDE (Cl-):	26.000
SULFATE (SO4--):	35.000
BICARBONATE (HCO3-):	-----
CARBONATE (CO3--):	-----

Municipal Water-Supply Inventory

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: