

Municipal Water-Supply Inventory

DATA FOR: SIGOURNEY #4
 WNUMBER: 34992

PMSID\SEQ#: 5475050- 13
 USGS ID: 0

GENERAL INFORMATION

LOCATION: T 76N R12W Sec 25SWSNESW COUNTY: KEOKUK
 TOPOGRAPHIC MAP: SIGOURNEY
 ELEVATION: 695 feet SITE TYPE: Drilled hole TOTAL DEPTH: 222 feet BEDROCK DEPTH: 63 feet
 DRILLER: [54] Layne Western - Ia. DRILL DATE: 01/21/93 DRILLING METHOD:
 WELL TYPE: Municipal WELL DEPTH: 222.00 feet AQUIFER: Quaternary
 Mississippian

STATUS: Primary ON LINE: 01/01/94 ABANDONED: / / PLUGGED: / /
 LOG TYPE: Drillers log LOG QUALITY: Good SAMPLE TYPE: BEDROCK DEPTH: 63 feet STRIP LOG BY:
 LOG TYPE2: LOG QUALITY2: BASIN: 7080106
 COMMENTS: Date also reported 1992 STRIP LOG DATE: / /
 SUPPLY PERCENT: 0.00%

EDIT DATE: 02/12/02

VULNERABILITY: 2

WELL CONSTRUCTION DATA FOR SIGOURNEY #4

HOLE SCHEDULE: WELL CONSTRUCTION DATE: 01/21/93
 (1) Hole diameter: 28 inches Depth to bottom: 48 feet
 (2) Hole diameter: 21 inches Depth to bottom: 71 feet
 (3) Hole diameter: 11 inches Depth to bottom: 222 feet

CASING SCHEDULE:
 (1) Diameter: 24 inches Type: STEEL Depth top: feet Depth bottom: 48 feet Amount: 48
 (2) Diameter: 16 inches Type: STEEL Depth top: feet Depth bottom: 49 feet Amount: 49
 (3) Diameter: 16 inches Type: STEEL Depth top: 65 feet Depth bottom: 71 feet Amount: 6

GROUT SCHEDULE:
 (1) Grout type: CEMNT Grout top: feet Depth bottom: 40 feet
 (2) Grout type: BENT Grout top: 40 feet Depth bottom: 44 feet

SCREEN OR PERFORATED CASING SCHEDULE:
 (1) Diameter: 16 inches Slot: 0 inches Depth top: 49
 feet Depth bottom: 65 feet Amount: 16 feet

GRAVEL-PACKED: True Gravel-packed top: 44 feet Gravel-packed bottom: 65 feet

PUMP SCHEDULE:
 Pump type: TURB Diameter: 8 inches Depth to intake: 95 feet
 Rated capacity: 8 gpm

COMMENTS:
 **From Layne-Western Co., Inc.: Cementing record: 60 sacks of neat cement
 40'-0'; hole plug seal 44'-40', #3 Northern gravel 65'-44'; grout 71'-65';
 grouted between 16" & 24" from 40'-5'***
 **From Layne-Western Co., Inc.: "Screen was placed in top of rock to from
 {sic - probably "form"} seal without closing off major water bearing
 strata.***

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HOLE SCHEDULE:

WELL CONSTRUCTION DATE: 01/21/93

CASING SCHEDULE:

GROUT SCHEDULE:

(1) Grout type: Grout top: 65 feet Depth bottom: 71 feet

SCREEN OR PERFORATED CASING SCHEDULE:

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

PUMP SCHEDULE:

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

COMMENTS:

HYDROGEOLOGIC INFORMATION FOR SIGOURNEY #4

MAIN WATER:
Main water top: 0 feet Main water bottom: 0 feet Pump rating: 150 gpm Pump yield: 0 gpm

DATE PUMPED: 02/22/94 TIME PUMPED:
STATIC WATER LEVEL: 6.0 feet PUMPING WATER LEVEL: 85.0 feet YIELD:
135.0 gpm DURATION:
AQUIFER PUMPED: Quaternary PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:

DATE PUMPED: 11/05/01 TIME PUMPED:
STATIC WATER LEVEL: 33.9 feet PUMPING WATER LEVEL: 44.9 feet YIELD:
88.0 gpm DURATION:
AQUIFER PUMPED: Quaternary PUMP TEST: False PUMP METHOD:
MEASUREMENT:

COMMENTS:

DRILLER'S LOG FOR SIGOURNEY #4

From Layne-Western Co., Inc.:
0'-4' black top soil
4'-6' gray clay
6'-8' brown clay
8'-12' blue gray till
12'-17' blue gray till and fine to coarse gray sand
17'-26' gray till
26'-26' gray sand till
26'-41' hard green brown till
41'-44' fine to medium brown sand
44'-63' fine to coarse brown sand w/ limestone streaks
63'-65' gray limestone
65'-66' gray shaley limestone
66'-70' light gray limestone
70'-85' light gray limestone w/ shale streaks
85'-124' light gray and white limestone
124'-133' light gray limestone
133'-137' off white to white limestone

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137'-161' white gray limestone
161'-176' dark gray limestone
176'-200' light and dark gray limestone
200'-217' buff colored limestone
217'-222' dark gray shaley dolomite
222' bottom of boring

Log interpreted from French-Reneker Associates, Inc. Consulting
Engineers drawing:

0'- ' black top soil
'- ' gray clay
'- ' blue gray till
'-17' blue gray till & coarse sand
17'-26' gray till
26'-41' hard green brown till
41'- ' medium brown sand
'-65' fine to coarse brown sand with limestone streaks
65'-70' gray limestone
70'-85' light gray limestone with shale streaks
85'-124' light gray and white limestone
124'-137' off white to white limestone
137'-161' white gray limestone
161'-176' dark gray limestone
176'- ' light & dark gray limestone
'-217' buff colored limestone
217'-221' gray shaley dolomite

WATER QUALITY DATA FOR SIGOURNEY #4