

## *Hydrostratigraphic Database of West-Central Wisconsin*

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### Video-logged Municipal Wells in Hudson and River Falls

Well	Casing Diam. (in)	Bottom Casing (ft.)	Total Depth (ft.)	Static Water (ft.)	Formations Logged
Hudson No. 3	16	258	538	152	Jordan fm.
Hudson No. 5	15	127	504	106	Cambrian undiff.
Hudson No. 7	23	381	501	86	Mt. Simon fm.
Hudson No. 8 (2 logs)	18	298	365	93	Jordan fm.
Hudson No. 9	18	303	394	94	Jordan fm.
River Falls No. 2	12	132	401	27	Prairie du Chien / Jordan fm.
River Falls No. 3	16	165	382	39	Prairie du Chien / Jordan fm.
River Falls No. 4	16	319	415	47	Jordan and St. Lawrence fms.
River Falls No. 5	16	318	386	73	Jordan fm.

File contains video indices only. Actual videos are digitally archived at the WGNHS.

## RVC VIDEO INSPECTION LOG

CITY OF HUDSON – MUNICIPAL WELL NO. 3      December 13, 2002  
UNIQUE WELL NO. – BG853      Formation Reported – Jordan Sandstone  
Address – 14<sup>th</sup> Street & Gray Street      Purpose of Inspection – Rehab.(Pumping Sand)  
Pump Setting – 230 to 248 feet      Date Drilled – 1953  
Drilling Co. / Client – Keys Well Drilling Co.      Driller – ?      Drilling Method – Cable Tool  
Reference - Top of 16 inch Casing      Stickup – 1.0 feet  
16 inch Casing – 0 to 258 feet      16 inch Open Hole – 258 to 538 feet  
Depth Logged – 535 feet      Reported Depth – 538 feet      Depth Drilled – 543 feet  
16 inch Casing – 0 to 259.1 feet      16 inch Open Hole – 259.1 to 535 feet  
City of Hudson Rep. – Mr. Dennis Christophersen      Inspected By: Jim H. Traen

<u>Recording Time</u>	<u>Depths(in feet)</u>	<u>Remarks/Observations</u>
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Centering Guides @ 15 inches

09:29	0:00:00	005.8	Start Inspection
09:32	0:03:32	010.7	Casing Joint - Welded
09:37	0:08:22	030.9	Casing Joint - Welded
09:47	0:18:30	091.7	Casing Joint – Welded ?
09:49	0:19:45	096.7	Casing Joint - Welded
09:52	0:23:10	118.8	Casing Joint - Welded
09:58	0:28:42	139.3	Casing Joint - Welded
10:00	0:30:54	152.3	Static Water Level
10:06	0:36:11	179.9	Rub
10:18	0:49:03	239.2	Bowl Rub
10:22	0:53:15	251.4	Bare Casing
10:26	0:57:32	259.1	End of 16 inch Casing
			Coated
10:32	1:03:02	280	Bare Rock
11:00	1:31:10	533.9	Artifact – Rod ?
11:01	1:32:30	535.0	Bottom of Well
			Small Cavity
			Pump Rod
11:15	1:46:05	390	Bottom Cable Groove
11:20	1:50:57	259.9	End of 16 inch Casing
11:27	1:58:13	010.0	End of Inspection

Downhole Well  
Services, LLC.

CITY OF  
HUDSON

MUNICIPAL  
WELL NO. 3

ADDRESS:  
14<sup>TH</sup> STREET &  
GRAY STREET

RVC VIDEO  
INSPECTION

DECEMBER 13,  
2002

REHABILITATION  
INSPECTION

Downhole Well  
Services, LLC.

Downhole Well Services, LLC.  
A full-service geophysical logging firm

CITY OF HUDSON

MUNICIPAL WELL NO. 3

ADDRESS:  
14<sup>TH</sup> STREET & GRAY STREET

RADIAL VIEW COLOR VIDEO INSPECTION

DECEMBER 13, 2002

REHABILITATION INSPECTION

email:marsabitt@aol.com  
phone: (651) 238-1198

8145 long lake road, mounds view, mn 55112-6033  
residence: (763) 785-1876



**Downhole Well  
Services, LLC**

## VIDEO INSPECTION LOG

### **CITY OF HUDSON – MUNICIPAL WELL NO. 5**

January 10, 2005

**WI WELL NO. - Unknown** Address - 600 Lemon Street, North Hudson, WI Elevation – Unknown

Purpose – Casing & Open Hole Inspection

Cutting Set No. – Unknown

Drilling Method – Not Specified(Cable Tool)

Drilling Company – Keys Well Drilling Company

Driller – Mr. John Brandon

Date Drilled (Comp.) – April 1962

Formation – Sandrock?

Date Liner Installed – May 17, 1967

12 inch Liner – to 177 feet

Static Water Level – 105.9 feet

Depth Reference – Top Of 12 inch Casing

Stickup – 1.42 feet

Pump Setting – 170 feet of Column

Reported 20 inch Casing - to 55 feet

Reported 16 inch Casing - to 127 feet

Reported 15 inch Open Hole – 127 to 504 feet

Original Drilled Depth - 504 feet

Reported Completed Depth - 504 feet

Depth Logged – 504.2 feet

12 inch Casing – 0 to 176.4 feet

15 inch Open Hole – 176.4 to 504.2 feet

Rehabilitation Contractor – Keys Well Drilling Company

Representative - Mr. Jeff Keys

City of Hudson Water Department Director – Mr. Dennis Christophersen

Inspected By - Jim H. Traen

<u>Recording Time</u>	<u>Depths(in feet)</u>	<u>Remarks/Observations</u>
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#### **Centering Guides @ 11 inches**

08:40	0:00:00	004.66	Start Inspection -12 inch Casing
08:45	0:04:33	016.7	Casing Joint - Welded
08:49	0:08:35	035.5	Casing Joint - Welded
08:51	0:11:19	045.8	Casing Joint - Welded
08:54	0:14:09	055.8	Casing Joint - Welded
08:57	0:16:46	061.5	Casing Joint – Welded?
08:58	0:17:37	062.4	Casing Joint - Welded
09:01	0:20:54	076.4	Casing Joint – Welded?
09:03	0:22:24	080.0	Casing Joint – Welded
09:06	0:26:09	101.1	Casing Joint – Welded
09:08	0:27:39	105.9	Static Water Level
09:12	0:31:45	123.1	Casing Joint - Welded
09:17	0:36:35	144.0	Casing Joint - Welded
09:23	0:42:51	163.2	???
09:24	0:43:41	164.0	Casing Joint - Welded
09:27	0:46:38	174.7	Pump Bowl Rubs
09:29	0:48:34	176.0	Shoe Threads
09:29	0:49:05	176.4	End of 12 inch Casing
09:44	1:03:54	279	Vertical Fracture
10:11	1:30:28	503.2	Current Bottom of Well
10:23	1:42:16	376.0	Bottom of 4? Inch Shaft
10:25	1:44:32	364.8	Top of 4? Inch Shaft
10:38	1:57:46	177.7	End of Casing
10:43		010.0	End of Inspection

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address: 8145 long lake road, mounds view, minnesota 55112-6033

# *Downhole Well Services, LLC.*

## VIDEO INSPECTION LOG

**CITY OF HUDSON – MUNICIPAL WELL NO. 7**

May 19, 2003

**UNIQUE WELL NO. – CG778/65600876**

Formation Reported – Mount Simon Sandstone

Address – 719 4<sup>th</sup> Street North

Purpose of Inspection – Well Integrity Update

Pump Setting – ? feet

Date Drilled – December 29, 1989

Drilling Co. / Client – Keys Well Drilling Co. Driller – Mr. Jim Sampson Drilling Method – Cable Tool

Reference - Top of 18 inch Casing Stickup – 23.5 inches Reported 24 inch Casing – 0 to 153 feet

Reported 18 inch Casing – 0 to 381 feet Reported 23 inch Open Hole – 381 to 522 feet

Depth Logged – 500.6 feet Reported Depth – ? feet Depth Drilled – 522 feet

18 inch Casing – 0 to 382.9 feet 23 inch Open Hole – 382.9 to 500.6 feet

Rehab. Contractor – Keys Well Drilling Company Rep. – Mr. Jeff Keys

City of Hudson Rep. – Mr. Dennis Christophersen Inspected By: Jim H. Traen

<u>Recording Time</u>	<u>Depths(in feet)</u>	<u>Remarks/Observations</u>
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**Centering Guides @ 17 inches**

07:52	0:00:00	005.75	Start Inspection – 18 inch Casing
07:54	0:01:51	019.8	Casing Joint - Welded
07:56	0:03:53	035.1	Casing Joint - Welded
08:00	0:07:48	074.8	Pump Column Rub
08:00	0:08:37	077.7	Casing Joint - Welded
08:02	0:10:19	086.4	Static Water Level
08:05	0:12:56	098.2	Casing Joint - Welded
08:08	0:16:18	118.3	Casing Joint - Welded
08:11	0:19:05	138.6	Casing Joint - Welded
08:13	0:21:05	154	Encrustation
08:14	0:22:12	159.1	Casing Joint - Welded
08:17	0:24:52	179.0	Casing Joint - Welded
08:20	0:27:54	199.1	Casing Joint - Welded
08:23	0:30:54	219.7	Casing Joint - Welded
08:27	0:35:10	240.4	Casing Joint - Welded
08:30	0:38:25	260.7	Casing Joint - Welded
08:33	0:41:15	281.1	Casing Joint - Welded
08:36	0:44:12	301.2	Casing Joint - Welded
08:39	0:47:31	321.4	Casing Joint - Welded
08:42	0:50:24	340.9	Casing Joint - Welded
08:45	0:53:13	361.1	Casing Joint – Welded
08:48	0:56:21	381.3	Casing Joint – Drive Shoe
08:50	0:58:17	382.9	End of 18 inch Casing
Vertical Fractures thru Bottom of Well			
08:55	1:03:24	416.6	Cable Grooves
08:58	1:05:51	425.7	Top of Cavity
09:00	1:08:32	452.2	Ledge
09:02	1:05:54	472.8	Bottom of Cavity
09:04	1:12:25	500.6	Bottom of Well
09:30	1:38:02	007.4	End of Inspection

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## RVC VIDEO INSPECTION LOG

**CITY OF HUDSON, WI – MUNICIPAL WELL NO. 8**      December 13, 2001  
**WI UNIQUE WELL NO. – NV213**      Formation Reported – Jordan Sandstone  
 Address – Hanley Road & O'Neil Road      Stickup – 15 inches  
 Date Drilled – August 15, 2001      Drilling Method – Dual Rotary, Cable Tool  
 Purpose of Inspection – New Construction      Reference - Top of 18 inch Casing  
 Reported 24 inch Casing – 0.0 to 38 feet      18 inch Casing – 0.0 to 298.2 feet  
 Reported 18 inch Open Hole – 298.2 to 365 feet  
 Depth Logged – 310.8 feet      Reported Depth – 365 feet      Original Depth – 365 feet  
 Drilling Co. / Client – Mark J. Traut Wells, Inc.      Driller – Mr. Anton Traut  
 Engineering Co. – Short Elliott Hendrickson, Inc.      Engineer – Mr. Steven G. Nelson  
 City of Hudson Rep. – Mr. Dennis Hendrickson      Inspected By: Jim H. Traen

<u>Recording Time</u>	<u>Depths(in feet)</u>	<u>Remarks/Observations</u>
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Centering Guides @ 17 inches		
09:14	0:00:00	006.5
09:17	0:02:22	014.1
09:19	0:04:23	033.9
09:21	0:06:36	054.5
09:23	0:08:22	074.4
09:25	0:10:26	093.4
09:26	0:11:25	094.8
09:28	0:13:46	114.4
09:31	0:10:12	135.1
	0:18:50	
09:35	0:20:48	155.2
09:38	0:23:38	175.2
09:40	0:25:14	190.0
09:41	0:26:01	195.1
09:44	0:28:52	215.3
09:46	0:31:00	235.0
09:48	0:33:01	255.4
09:49	0:34:26	265.9
09:50	0:35:30	275.3
09:52	0:37:19	295.5
09:53	0:38:13	298.2
		Cavity
09:56	0:41:20	309.9
09:58	0:43:22	310.8
10:13	0:58:39	299.7
10:19	1:02:34	313.2
10:30	1:13:55	010.0

Summit  
Envirosolutions®,  
Inc.

**CITY OF  
HUDSON, WI**

**MUNICIPAL  
WELL NO. 8**

**ADDRESS:  
HANLEY RD. &  
O'NEIL RD.**

**RVC VIDEO  
INSPECTION**

**DEC. 13, 2001**

*NEW  
CONSTRUCTION  
INSPECTION*



A full-service environmental engineering and consulting firm

**CITY OF HUDSON, WI**

**MUNICIPAL WELL NO. 8**

**ADDRESS:  
HANLEY ROAD & O'NEIL ROAD**

**RADIAL VIEW COLOR VIDEO INSPECTION**

**DECEMBER 13, 2001**

*NEW CONSTRUCTION INSPECTION*

1217 Bandana Boulevard North

2331 Silvernail Rd., PMB 72

Mob: (651) 238-1198    Off: (800) 323-5601    Fax: (651) 647-0888

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## VIDEO INSPECTION LOG

**CITY OF HUDSON, WI – MUNICIPAL WELL NO. 8** April 18, 2002  
**WI UNIQUE WELL NO. – NV213** Formation Reported – Jordan Sandstone  
 Address – Hanley Road & O'Neil Road Stickup – 13 inches  
 Date Drilled – August 15, 2001 Drilling Method – Dual Rotary, Cable Tool  
 Purpose of Inspection – New Construction(2<sup>nd</sup> Inspection) Ref. - Top of 18 inch Casing  
 Reported 24 inch Casing – 0.0 to 38 feet Reported 18 inch Casing – 0 to 300 feet  
 Reported 17.25 inch Open Hole – 300 to 360 feet  
 18 inch Casing – 0.0 to 297.8 feet 17.25 inch Open Hole – 297.8 to 354.3 feet  
 Depth Logged – 354.3 feet Reported Depth – 360 feet Original Depth – 365 feet  
 Drilling Co. / Client – Mark J. Traut Wells, Inc. Driller – Mr. Anton Traut  
 Engineering Co. – Short Elliott Hendrickson, Inc. Engineer – Mr. Steven G. Nelson  
 City of Hudson Rep. – Mr. Dennis Hendrickson Inspected By: Jim H. Traen

<u>Recording Time</u>	<u>Depths(in feet)</u>	<u>Remarks/Observations</u>
<b>Centering Guides @ 17 inches</b>		
<b>Casing Joints Inspected on Inspection of December 13, 2001</b>		
14:14 0:00:00	006.6	Start Inspection
14:18 0:03:51	092.9	Static Water Level
14:23 0:08:59	297.8	End of 18 inch Casing / Top of Cavity
14:28 0:13:34	322	Bottom of Cavity
<b>Cloudy – Camera Disturbing Ledges</b>		
14:36 0:22:24	354.3	Current Bottom of Well / Bottom of Cavity
<b>Cavity</b>		
14:42 0:27:41	339	Top of Cavity?
14:43 0:29:17	338.5	2/2 to 1/3 Cavity
14:45 0:31:17	335.6	Annulus Intact
14:47 0:32:31	334.4	½ Cavity
14:49 0:34:40	329	Annulus Intact
14:51 0:36:40	323	½ Cavity
14:52 0:37:40	322	Bottom of Cavity
<b>Cavity</b>		
14:54 0:39:30	302.3	Top of Cavity
14:58 0:43:56	398.5	End of 18 inch Casing
15:11 0:54:47	010.6	End of Inspection

# RVC VIDEO INSPECTION LOG

... Continued from Front Cover

CITY OF HUDSON - MUNICIPAL WELL NO. 9 Date Video Logged - May 6, 2002  
 WI Unique Well No. - RY274 Add. - NE Corner of Hanley Road & O'Neil Rd.  
 Formation - Jordan SS Purpose - New Construction / Open Hole Inspection  
 Date Drilled - Currently Drilling Drilling Method - Rotary Elevation - 923 feet  
 Drilling Co. - Sam's Rotary Driller - J.V.G. Facility I.D. No. - 20010673  
 18 inch Casing - 0 to 303.4 feet 18 inch Open Hole - 303.4 to 394.2 feet  
 Water Level - 94.0 feet Depth Logged - 394.2 feet  
 Reported Depth - 395 feet Original Depth - 395 feet Pump Setting - none  
 Depth Reference - Top of 18 inch Casing Stickup - 9.5 inches  
 Engineering Co. - Short Elliott Hendrickson Engineer - Mr. Steve Nelson, P.E.  
 Client - Mark J. Traut Wells, Inc. Client Rep. - Mr. Dave Traut  
 City of Hudson Rep. - Mr. Dennis Christopherson Inspected By - Jim H. Traen

Recording Time	Depth(in feet)	Remarks/Observations
		Centering Guides @ 17 inches
10:27 0:32:14	367.3	Cavity
10:28 0:32:25	366.1	1/2 Circumference Visible
10:29 0:34:01	356.0	1/2 Circumference Visible
10:31 0:35:19	348.0	1/2 Circumference Visible
10:31 0:35:47	345.0	Cavity
10:32 0:36:29	342.8	1/4 Circumference Visible
10:32 0:36:49	341.2	1/2 Circumference Visible
10:32 0:37:00	339.8	1/4 Circumference Visible
10:33 0:37:24	336.9	Cavity
10:34 0:38:42	328.7	Clear
10:34 0:39:13	329	Top of Ledge
10:35 0:39:27	326.1	1/2 Circumference Visible
10:37 0:41:08	308.3	
10:39 0:41:09	306.3	Camera Trapped in Casing Slit
10:40 0:42:24	303.7	End of 18 inch Casing
10:41 0:43:24	303.6	End of 18 inch Casing
10:44 0:45:56	310.5	1/2 Circumference Visible
10:44 0:46:42	310.6	1/2 Circumference Visible
10:51 0:53:28	305.9	Camera Trapped in Casing Slit
10:52 0:54:36	303.6	End of 18 inch Casing & Slit
		Examining Slit in End of Casing
10:55 0:57:11	301.4	
11:09 1:11:06	010.0	End of Inspection

In Summary: 301 to 303(E.O.C.) Slit in Casing  
 303(E.O.C.) to 327 Cavity  
 327 to 340 Circumference Intact  
 340 to 345 Partial Cavity  
 345 to 346 Cavity  
 346 to 366 Partial Cavity  
 366 to 375 Cavity  
 375 to 384 Circumference Intact  
 384 to 387 Partial Cavity  
 387 to 394 (Current Bottom) Circum. Intact



## CITY OF HUDSON

### MUNICIPAL WELL NO. 9

ADDRESS:  
 NE CORNER  
 OF  
 HANLEY RD.  
 &  
 O'NEIL RD.

RVC VIDEO  
 INSPECTION

MAY 6, 2002

NEW  
 CONSTRUCTION  
 INSPECTION

Downhole Well  
 Services, LLC.



A full-service geophysical logging firm

CITY OF HUDSON - MUNICIPAL WELL NO. 9 Date Video Logged - May 6, 2002  
 WI Unique Well No. - RY274 Add. - NE Corner of Hanley Road & O'Neil Rd.  
 Formation - Jordan SS Purpose - New Construction / Open Hole Inspection  
 Date Drilled - Currently Drilling Drilling Method - Rotary Elevation - 923 feet  
 Drilling Co. - Sam's Rotary Driller - J.V.G. Facility I.D. No. - 20010673  
 18 inch Casing - 0 to 303.4 feet 18 inch Open Hole - 303.4 to 394.2 feet  
 Water Level - 94.0 feet Depth Logged - 394.2 feet  
 Reported Depth - 395 feet Original Depth - 395 feet Pump Setting - none  
 Depth Reference - Top of 18 inch Casing Stickup - 9.5 inches  
 Engineering Co. - Short Elliott Hendrickson Engineer - Mr. Steve Nelson, P.E.  
 Client - Mark J. Traut Wells, Inc. Client Rep. - Mr. Dave Traut  
 City of Hudson Rep. - Mr. Dennis Christopherson Inspected By - Jim H. Traen

Recording Time	Depth(in feet)	Remarks/Observations
		Centering Guides @ 17 inches
09:45 0:00:00	006.6	Start Inspection
10:00 0:04:22	094.0	Static Water Level
10:07 0:11:42	301.0	Top of Casing Rip
10:08 0:12:20	303.4	End of 18 inch Casing
10:11 0:15:22	328	Top of Ledge
10:11 0:16:07	329	Circumference of Hole Intact
10:12 0:16:32	331.8	Circumference Intact
10:13 0:17:43	342.0	Circumference Intact
10:13 0:17:57	343.4	1/2 Circumference Visible
10:13 0:18:09	343.9	Cloudy / Sandy Colored / Cavity?
10:14 0:18:21	343	Top of Cavity
10:15 0:20:09	365.2	1/4 Circumference Visible
10:17 0:22:07	386.9	1/2 Circumference Visible
10:19 0:23:14	387	Cavity
10:19 0:23:31	388.2	Circumference Intact
10:20 0:25:12	394.2	Lighthouse Buried Current Bottom of Well
10:24 0:28:29	385.1	1/4 Circumference Intact
10:26 0:30:41	376.7	Circumference Intact

Bottom of Cloudy Area

Continued on Back Cover ...

email: marsabitt@aol.com  
 phone: (651) 238-1198

8145 long lake road, mounds view, mn 55112-6033  
 residence: (763) 785-1876

## RVC VIDEO INSPECTION LOG

**RIVER FALLS - MUNICIPAL WELL NO. 2(Formerly Known as Oak Street Well #2)**  
**Date Video Logged - March 9, 2005**      **WI UNIQUE WELL NO. - BG681**  
**DNR Approval No. - 84048**      **Elevation - Unknown**      **County: Pierce**  
**TRS: 27N, 19W, 2**      **Subsection - NENE**      **Address - 420 2<sup>nd</sup> Street**  
**Purpose - Pre Rehab. Inspection**      **Drilling Method - Not Specified (Cable Tool)**  
**Pump Setting - 120 feet**      **Drilling Company - Keys Well Drilling Company**  
**Driller - Not Specified**      **Date Drilled (Comp.) - 1948**  
**Formation - Lower Magnesium & Trempealeau**      **Reported 20 in. Casing - to 90 ft.**  
**Reported 12 in. Casing - to 132 feet**      **Reported 12 inch Open Hole - 132 to 401 ft.**  
**Reported Completed Depth - 401 feet**      **Reported Depth - ? feet**  
**Depth Logged - 382.4 feet**      **Static Water Level - 27.1 feet**  
**Depth Reference - Top of 12 inch Casing**      **Stickup - 1.75 feet**  
**12 inch Casing - 0 to 138.8 feet**      **16?(> 12) inch Open Hole - 138.8 to 382.4 feet**  
**Rehab. Contractor - Keys Well Drilling Co.**      **Representative - Mr. Doug Keys**  
**Water Works Superintendent - Mr. Mike Branigan**      **Inspected By - Jim H. Traen**

<u>Recording Time Depths(in feet)</u>			<u>Remarks/Observations</u>
Centering Guides @ 10.25 inches			
09:26	0:00:00	004.5	Start Inspection (12 inch Casing)
09:29	0:03:10	013.7	Casing Joint - Welded
09:33	0:06:37	027.1	Static Water Level
09:34	0:08:28	033.8	Casing Joint - Welded
09:37	0:10:58	045.4	Old Water Level
09:39	0:12:42	055.3	Casing Joint - Welded
09:40	0:13:58	055.6	2 <sup>nd</sup> Old Water Level
09:42	0:15:40	061.1	???
09:44	0:17:56	065.8	3 <sup>rd</sup> Old Water Level
09:47	0:20:47	075.9	4 <sup>th</sup> Old Water Level
09:48	0:21:57	076.4	Casing Joint - Welded
09:51	0:25:13	085.7	Coupling Rub ???
09:54	0:28:00	094.1	Casing Joint - Welded
09:59	0:33:12	114.1	Casing Joint - Welded
10:02	0:36:11	121.2	Pump Rub
10:07	0:40:57	133.5	E.O. 12 inch Casing / Top of Bell
10:08	0:42:15	137.2	End of Bell
10:10	0:43:32	138.8	End of ? inch Casing
10:12	0:45:51	141.0	End of Grout?
10:28	1:02:07	283	Dolomite - Sandstone Contact?
10:33	1:06:39	330.2	Vertical Fracture
10:37	1:10:24	357.4	Horizontal Cavity
10:41	1:14:52	381.4 + 1.0 feet	Current Bottom of Well
10:53	1:27:26	134.6	End of 12 inch Casing
10:55	1:29:24	139.6	End of ? inch Casing
11:05	1:39:28	007.9	End of Inspection



## RVC VIDEO INSPECTION LOG

**CITY OF RIVER FALLS - MUNICIPAL WELL NO. 3**      March 27, 2002  
**WI Unique Well No. - BG682**      Address - 321 Cedar Street  
**Formation - Prairie du Chien / Jordan Sandstone**      Purpose - Rehabilitation  
**Date Drilled - 1953**      Drilling Method - Not Specified  
**Drilling Co. - McCarthy Well Company**      Driller - ?      Engineer - H.T. Hagestad  
**Reported 24 inch Casing - 0 to 31 feet**      Reported 16 inch Casing - 0 to 164.5 feet  
**Reported 23 in. Open Hole - 164.5 to 379 ft.**      Original Static Water Level - 39 ft.  
**16 inch Casing - 0 to 168.3 feet**      24 inch Open Hole - 168.3 to 382.1 feet  
**Water Level - 38.5 feet**      Depth Logged - 382.1 feet  
**Reported Depth - ? feet**      Original Depth - 379 feet      Pump Setting - 150 feet  
**Depth Reference - Top of 16 inch Casing**      Stickup - 12 inches  
**Contractor - Keys Well Drilling Company**      Contractor Rep. - Mr. Doug Keys  
**City of River Falls Rep. - Mr. Mike Branigan**      Inspected By - Jim H. Traen

<u>Recording Time</u>	<u>Depth(in feet)</u>	<u>Remarks/Observations</u>
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Centering Guides @ 15 inches

09:10	0:00:00	006.3	Start Inspection
09:12	0:02:06	016.8	Casing Joint - Welded
09:15	0:05:09	036.4	Casing Joint - Welded
09:16	0:06:25	038.5	Static Water Level
09:20	0:10:18	058.2	Casing Joint - Welded
09:24	0:13:40	080.5	Casing Joint - Welded
09:27	0:16:41	103.8	Casing Joint - Welded
09:31	0:21:21	124.7	Casing Joint - Welded
09:35	0:24:35	147.6	Casing Joint - Welded?
09:36	0:25:38	151	Pump Rubs - Top
09:37	0:26:27	154.3	Pump Rubs - Bottom
09:38	0:28:13	168.3	End of 16 inch Casing
<b>Formation Bore Covered with Iron Encrustation</b>			
09:41	0:31:07	176.8	24 inch Open Hole
09:51	0:40:51	279	Top of Bare Rock
10:00	0:50:04	378.1	Vertical Fracture
10:05	0:54:58	382.1	Current Bottom of Well
			<b>Vigorous Rolling Flow</b>
10:26	1:16:05	168.5	End of Casing
10:32	1:22:22	010.0	End of Inspection

## RVC VIDEO INSPECTION LOG

**RIVER FALLS MUNICIPAL UTILITIES - WELL NO. 4**      March 18, 2003  
**WI Unique Well No. - BG683**      Source Formation - Jordan SS / St. Lawrence  
 Street Address - 901 Sycamore Street      Purpose of Inspection - Rehabilitation  
 Drilling Co. - McCarthy Well Co.      Driller - Unknown      Date Drilled - Sept. 20, 1967  
 Drilling Method - Cable Tool(Not Specified)      Static Water Level - 46.5 feet  
 Depth Reference - Top of 16 inch Casing      Stickup - 18.5 inches  
 Reported 24 inch Casing - 1.54 to 24 feet      Reported 16 inch Casing - 0 to 315 feet  
 Reported 7 inch Open Hole - 315 to 415 feet      Pump Setting - 140 feet  
 Reported Depth - ? feet      Depth Completed - 415 feet      Depth Inspected - 401.3 feet  
 16 inch Casing - 0 to 318.6 feet      16? inch Open Hole - 318.6 to 401.3 feet  
 Rehabilitation Contractor - Keys Well Drilling Co.      Rep. - Mr. Doug Keys  
 River Falls Muni. W.W. Superintendent - Mr. Mike Branigan      Inspected By - Jim H. Traen

<u>Recording Time</u>	<u>Depth(in feet)</u>	<u>Remarks/Observations</u>
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Centering Guides @ 15 inches

10:23	0:00:00	005.8	Start Inspection - 16 inch Casing
10:24	0:01:13	007.0	Casing Joint - Welded
10:30	0:07:07	034.2	Casing Joint - Welded
			<b>Heavy Incrustation above Water Level</b>
10:33	0:09:48	046.5	Static Water Level
10:34	0:10:56	048.0	Casing Joint - Welded
10:37	0:14:11	068.8	Casing Joint - Welded
10:39	0:15:55	075.9	Drawdown Level
10:41	0:17:41	086.1	Drawdown Level
10:45	0:21:58	107.3	Casing Joint - Welded
10:47	0:23:56	115.3	Casing Joint - Welded
10:51	0:27:54	136.1	Casing Joint - Welded
10:54	0:30:26	143.5	Top Pump Bowl Rub
10:55	0:32:15	145.4	Bottom Pump Bowl Rub
11:01	0:37:38	177.5	Casing Joint - Welded
11:05	0:41:23	197.5	Casing Joint - Welded?
11:10	0:46:17	219.0	Casing Joint - Welded
11:15	0:51:16	241.2	Casing Joint - Welded
11:18	0:55:05	262.3	Casing Joint - Welded
11:23	0:59:21	282.6	Casing Joint - Welded
11:26	1:03:01	304.0	Casing Joint - Welded
11:29	1:05:45	318.6	End of 16 inch Casing
11:32	1:09:07	338	Top of Cavity
11:40	1:16:24	401.3	Current Bottom of Well
11:56	1:33:07	008.5	End of Inspection

# RVC VIDEO INSPECTION LOG

**CITY OF RIVER FALLS - MUNICIPAL WELL NO. 5** March 9, 2001  
**WI UNIQUE WELL NO. - BG684** Purpose of Inspection - Rehabilitation  
 Add. - 1215 West Division Street Formation Rpt'd - Prairie du Chien / Jordan SS  
 Water Level - 73.1 feet Elevation - ? feet Pump Setting - 250 feet  
 16 inch Casing - 0 to 317.5 feet 20? Inch Open Hole - 317.5 to 385.7 feet  
 Depth Logged - 385.7 feet Reported Depth - 386 feet  
 Original Depth - 440? feet Depth Ref. - Top of 16 inch Casing  
 Stickup - 17 inches Date Drilled - 1979  
 Drilling Method - Cable Tool? Drilling Company - Keys Well Drilling Company  
 Client - Keys Well Drilling Company Client Rep. - Mr. Doug Keys  
 City of River Falls Rep. - Mr. Mike Branigan Inspected By - James H. Traen

Recording Time	Depth(in feet)	Remarks/Observations
Centering Guides @ 15 inches		
10:22 0:00:00	007.0	Start Inspection
10:23 0:01:23	007.1	Casing Joint - Welded
10:25 0:03:09	026.7	Casing Joint - Welded
10:27 0:04:56	046.4	Casing Joint - Welded
10:28 0:06:23	055.1	Pump Column Rub
10:29 0:07:32	065.4	Pump Column Rub
10:30 0:08:39	073.1	Static Water Level
10:32 0:09:56	083.3	Casing Joint - Welded
10:32 0:10:44	085.2	Pump Column Rub
10:33 0:11:44	095.4	Pump Column Rub
10:34 0:12:27	102.6	Casing Joint - Welded
10:35 0:13:27	105.8	Pump Column Rub
10:37 0:15:44	123.2	Casing Joint - Welded
10:39 0:17:39	143.3	Casing Joint - Welded
10:41 0:19:24	162.4	Casing Joint - Welded
Encrustation		
10:45 0:22:59	182.3	Casing Joint - Welded
10:47 0:25:00	202.1	Casing Joint - Welded
Encrustation		
10:49 0:27:25	216.8	Pump Column Rub
10:50 0:28:26	219.9	Casing Joint - Welded
10:52 0:30:22	239.9	Casing Joint - Welded
10:54 0:32:27	259.4	Casing Joint - Welded
	260.7?	
10:56 0:34:43	279.1	Casing Joint - Welded
10:59 0:36:55	298.8	Casing Joint - Welded
11:04 0:41:23	317.5	End of 16 inch Casing
11:05 0:42:09	321.1	Grout
20? Inch Open Hole		
11:09 0:45:55	370.6	Airline
11:11 0:47:50	385.7	Current Bottom of Hole / Well
11:25 1:01:52	012.0	End of Inspection