

Northway Well and Pump Co.

54624

4895 8th Avenue
Marion, Iowa 52302

Drilled for Water Works of Marion, Iowa
Well is located N-E-S-W and miles N-E-S-W from North end of Hawthorn Street
in the 1/4 1/4 Section 75 Township 84N Range 7W
Drilling started August 1, 19 99 Completed October 28, 19 99
Well No. 6 Kind of Well Rotary Depth 1596 Size hole started 32 in
Finish 14 3/4 G.P.M. 1580 Static Head 330 Pumping level from surface 432
Water was first encountered at 220' insilurian Approx. Amt. 200 Temp. 56
Remarks 18" pipe equiped with haliburton grout shoe cemented with 1600 sacks

(GIVE DETAILS OF PERFORATED PIPE AND SEALS)

RECORD OF PERMANENT PIPE					TEMPORARY PIPE	
SIZE PIPE	AMOUNT OF PIPE	DEPTH TO BOTTOM OF PIPE	DEPTH TO TOP OF PIPE	MAKE OF PIPE	SIZE PIPE	AMOUNT
22"	673	673	+2	A53 Prime B .500 wall	28"	140' cemented
18"	426	1135	673	A53 Prime B .500 wall		

Driller Mark Evans From Surface to 1596 feet
Driller From Surface to feet
Driller From Surface to feet

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPTH FEET
20	Till	20
88	Clay with sand and gravel	108
55	Brown limestone	163
320	Gray and tan limestone with Dolomite	483
253	Tan and gray Dolomite with dark chert and shale seams	736 over

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03/28/00 00:17 FAX

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**Marion Municipal Water Department
Marion, Iowa
Water System Improvements
Well No. 6**

54624

Geologic Unit	Thickness	Description
Quaternary System	0' - 108'	Glacial Till, Clay, Sand & Gravel
Devonian System	108' - 163'	Limestone - Light Brown Gray Dolomite Brown & Gray
Silurian	163' - 483'	Limestone Gray and Tan Dolomite Brown to Tan and Gray Some Chert
Maquoketa	483' - 736'	Dolomite Tan & Gray Dark Chert Gray Shale
Galena and Platteville Formations	736' - 1052'	Limestone Tan and Gray Dolomite Tan and Light Gray Some Gray Chert Layers of Green Shales
St. Peters Formation	1052' - 1084'	Sandstone - White Fine Grained
Prairie Du Chein Group	1084' - 1455'	Limestone - Gray Dolomite - Light Gray to Tan
Jordan Sandstone	1455' - 1520'	Sandstone - Light Gray Fine to Medium Grained
St. Lawrence Dolomite	1520' - 1594'	Dolomite - Light Tan & Light Gray

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VIDEO

WATERWELL
LOG

4896 8th Avenue • Marion, Iowa 52302 • Telephone 319-377-6338
100 North 6th Street • Waukee, Iowa 50263 • Telephone 515-987-4576

CUSTOMER	Water Works	WELL NO.	#6 new	DATE	4-3-00
LOCATION	Off of Hawthorne Street	CITY	Marion, Iowa		
TYPE OF CASING	Steel	SIZE	22" and 18"		
CASING LENGTH	22" +3 - 673' 18" 673' - 1135'	YEAR INSTALLED	1999		

FOOTAGE	CLOSED CIRCUIT TELEVISION FINDINGS
	Visable 22" Casing Joints: 32'-71'-111'-151'-190'-231'-273'-
	311'-350'-392'-432'-472'-513'-553'-593'-632'-673'
322'	Static water level
673' - 675'	22" x 18" Weld reducer
675'	Top of 18" casing
	Visable 18" Casing Joints: 716'-758'-801'-842'-885'-927'-1005'-
	1047'-1089'-1132'
1132' - 1135'	Haliburton 18" cement shoe
1135'	Bottom of cement shoe
	Small crevices in formation: 1181'-1250'-1264'-1281'-1309'-1347'-
	1435'-1443'-1454'-1493'-1496'-1534'
1504'	Cloudy picture
1581'	Bottom of the well
	Note: Drilling fluid residuals are present on the casing walls.
	The greatest amount is from static water level to 1050'. The
	well's original drilled depth is 1596'. The well was bailed
	after acidizing and test pumping.

KNOWLEDGE • EQUIPMENT • RELIABILITY • EXPERIENCE