

Shawver Well Company, Inc.2700 Stanley Avenue
Fredericksburg, IA 50630

73926

(563) 237-5341
(800) 568-4449**Location of Well****213 Mill St. - Well #5**
Nasua, IA 50658**T94N R14W**County **Chickasaw**
Township **Bradford**
Section **17**
Quarters **SWNENW****Customer Information****CITY OF NASHUA****402 Main St.**
Nashua, IA 50658**Job Information**Area **CM**
T94N R14W
Latitude **42.962086695**
Longitude **-92.529900730**
PWSID: **967041 -**
PWTs # **WLO5**
Permit Number **2011-0252W**
Confirmation
Start Date **6/14/2011**
End Date **6/30/2011**
Warranty Date
Warranty**Well Site Information**Actual Size **10"**

Pump Inst - Liner--ft

Depth **1097'**

Sulfide - Screen--

Elevation

SWL **105.247'**

RPS

Max GPM

Air Lift **197' @ 200**
GPMMade Water **See Remarks**
Screen Size

Exploratory -- To Ft

Mock Rock -- Acidize --

Well Use

Slot Size

Riser Pipe

Set From

Perforated From

Tail Pipe

Driller **Dave Halweg**; Cert #: **2814****Remarks:****Made Water: 789' 30 GPM, 851'-868' 250 GPM, 910' - 928' 150 GPM, 976' 100' GPM, 1071' - 1081' 100 GPM, 1081' - 1097' More.****Well Formation Log**

From-To	Color	Formation
0 - 2		Topsoil w/Rock
2 - 23		Sand - Fine to Medium
23 - 38		Sand - Medium - Coarse
38 - 57		Sand - Medium to Fine
57 - 72		Gravel - Coarse
72 - 74	Yellow	Limestone - Soft
74 - 78	Yellow	Limestone
78 - 91	Gray - Brown	Limestone - Broken
91 - 93	Yellow	Limestone
93 - 151		Limestone - Porous
151 - 165	Blue	Shale
165 - 178	Blue	Shale - Soft
178 - 196	Gray	Limestone
196 - 218	Dark Gray	Limestone
218 - 253	Gray - Brown	Limestone
253 - 258	Blue	Shale
258 - 281	Brown - Gray	Limestone
281 - 310	Cream - Brown	Limestone
310 - 364	Dark Brown	Limestone
364 - 480	Lt. Brown	Limestone - Galena
480 - 500	Lt. Brown	Limestone with Gray Seams
500 - 586	Lt. Brown	Limestone with Gray Seams
586 - 598	Blue - Green	Shale - Rock
598 - 615	Blue	Shale
615 - 654	Brown - Gray	Shale - Rock
654 - 672	Blue	Shale
672 - 691		Sandstone - Soft
691 - 719		Sandstone
719 - 723	Gray	Limestone
	Cream -	

Bore Log

From-To	Bit Size - Number
0 - 19	26"
19 - 78	12 1/4"
19 - 76	23"
76 - 166	19"
166 - 770	15"
770 - 1097	9 7/8"

Well Casing Log

From-To	Casing
0 - 19	24" x .375" Steel
0 - 76	20" x .375" Steel
0 - 166	16" OD x .375 wall, structural grade, steel casing
0 - 770	10" ID x .365 wall, A53B steel casing
1 - 0	24" x .375" Steel
2 - 0	20" x .375" Steel
2 - 0	16" OD x .375 wall, structural grade, steel casing
2 - 0	10" ID x .365 wall, A53B steel casing

Screen Size

Slot Size

Riser Pipe

Set
From
Tail Pipe**Well Grout Used**

Amount	Type
1039 sacks	Neat Cement
13 sacks	Holeplug
7 sacks	EZ Seal
11 sacks	Casing Seal
3 sacks	High Early
18 sacks	Quick Trol Gold LV
92 sacks	Quick Gel

723 - 770	Tan	Limestone
770 - 789	Cream	Limestone with Gray Seams
789 - 851	Cream - Gray	Limestone
851 - 852		Sandstone
852 - 863	Cream	Limestone
863 - 868		Sandstone
868 - 872	Cream	Limestone with Blue Shale
872 - 910	Cream	Limestone
910 - 922	Gray	Limestone & Sandstone
922 - 928	Gray	Limestone & Sandstone
928 - 972	Gray	Limestone with Red Tint
972 - 1022	Gray - Brown	Limestone
1022 - 1031	Gray - Cream	Limestone
1031 - 1067	Cream	Limestone
1067 - 1074	Cream	Limestone
1074 - 1081		Limestone with Streaks of Sandstone
1081 - 1084		Sandstone - Soft
1084 - 1090	Gray	Limestone & Sandstone
1090 - 1097	Pink - Green	Limestone & Sandstone