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

73412

(563) 237-5341
(800) 568-4449

Location of Well

Well #3 - 615 3rd St. SW
Belmond, IA 50421

T93N R24W

County **Wright**
Township **Belmond**
Section **25**
Quarters **NE**

Customer Information

CITY OF BELMOND, IA
112 Second Ave. NE
Belmond, IA 50421

Job Information

Area **T93N R24W**
Latitude **N 42.842253**
Longitude **W -93.625691**
PWTS # **PWSID: 9905003 - WL03**
Permit Number **2010-0371W**

Confirmation
Start Date **9/23/2010**
End Date **10/27/2010**
Warranty Date
Warranty

Well Site Information

Actual Size **12"**
Depth **750'**
Elevation
SWL **56'4"**
RPS
Max GPM

Pump Inst -- Liner ✔ 65ft
Sulfide -- Screen--

Air Lift
Exploratory -- To Ft
Mock Rock -- Acidize --
Well Use

Made Water
Screen Size
Slot Size
Riser Pipe
Set From **356' - 421'**
Perforated From **372' - 385'**
Tail Pipe

Driller **Dave Halweg**; Cert #: **2814**

Remarks:
A 10.75" OD X .365" wall steel liner was set from 356' to 421'. The liner was perforated from 372' to 385'.

Well Formation Log

From-To	Color	Formation
0 - 2		Topsoil
2 - 14	Red	Sandy - Clay
14 - 74	Blue	Clay
74 - 91		Sand - Fine to Medium
91 - 96	Cream	Limestone
96 - 121	Cream	Limestone with Black-Green Shale Streaks
121 - 126	Dark Brown	Limestone
126 - 163	Cream	Limestone
163 - 174	Brown	Limestone
174 - 201	Gray - Brown	Limestone
201 - 226	Cream	Limestone
226 - 231	Gray	Shale
231 - 235	Cream	Limestone
235 - 243	Gray - Brown	Limestone
243 - 253	Gray	Limestone with Streaks of White Shale
253 - 254	Gray	Shale
254 - 258	Brown - Cream	Limestone
258 - 305	Cream - Gray	Limestone
305 - 310	Brown	Limestone
310 - 317	Brown - Gray	Limestone
317 - 320	Blue - Green	Shale

Bore Log

From-To	Bit Size - Number	
0 - 98	12 1/4"	
0 - 17	28 1/2"	Hole Opener
2 - 96	6 1/4"	
17 - 96	23" Hole Opener	
96 - 235	17"	
235 - 720	7 7/8"	
235 - 362	17"	
362 - 421	11 7/8"	
421 - 750	9 7/8"	

Well Casing Log

From-To	Casing
0 - 96	18" OD x Wall, A53B, Steel Casing
0 - 362	12" ID x .375 Wall, A53B, Steel Casing
2 - 0	18" OD x Wall, A53B, Steel Casing
2 - 0	12" ID x .375 Wall, A53B, Steel Casing

Screen Size
Slot Size — Set From **356` - 421`**
Riser Pipe — Tail Pipe

Well Grout Used

Amount	Type
417 sacks	Neat Cement

320 - 332	Brown	Shale - Soft
332 - 344	Gray	Shale
344 - 346	Brown	Limestone with Streaks of White Shale
346 - 365	Brown	Limestone
365 - 369	Gray	Shale - Rock
369 - 384	Gray - Brown	Limestone
384 - 388	Brown	Limestone
388 - 405	Gray	Limestone with Shale Streaks
405 - 418	Blue	Shale & Limestone
418 - 430	Cream	Limestone
430 - 458	Brown	Limestone
458 - 515	Brown - Gray	Limestone
515 - 523	Gray - Brown	Limestone
523 - 532	Brown	Limestone
532 - 536	Dark Brown	Limestone
536 - 540	Lt. Brown	Limestone
540 - 553	Brown	Limestone - Porous
553 - 557	Gray	Limestone
557 - 563	Brown	Limestone
563 - 570	Brown - Gray	Limestone
570 - 574	Gray - Cream	Limestone
574 - 609	Brown	Limestone with Shale Streaks
609 - 611	Dark Brown	Limestone
611 - 621	Gray - Brown	Limestone
621 - 658	Brown	Limestone with Gray Seams
658 - 663	Dark Brown	Limestone
663 - 670	Brown - Cream	Limestone
670 - 681	Brown - Gray	Limestone
681 - 685	Cream	Limestone
685 - 709	Brown	Limestone
709 - 720	Cream - Brown	Limestone
720 - 724	Cream - Gray	Limestone
724 - 747	Cream - Gray	Limestone
747 - 748	Cream - Gray	Limestone - Soft
748 - 750	Cream - Gray	Limestone

Received - 01/09/2012