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

73413

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

Location of Well

Well #4 - 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 **CM**
T93N R24W
Latitude **N 42.84226**
Longitude **W -93.62309**
PWTS # **PWSID: 9905003 - WL04**
Permit Number **2010-0371W**

Confirmation
Start Date **11/10/2010**
End Date **12/10/2010**
Warranty Date
Warranty

Well Site Information

Actual Size **14"**
Depth **750'**
Elevation
SWL **49.5'**
RPS
Max GPM

Pump Inst --
Sulfide --
Liner ✔ 78ft
Screen--

Made Water **367' - 373' - 50 GPM; 411' - 50 GPM**

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

Screen Size
Slot Size
Riser Pipe
Set From **340' - 418'**
Perforated From **366' - 375' and 412' - 415'**
Tail Pipe

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

Remarks:
A 11 3/4" OD x .333 wall steel liner was set from 340' to 418'. The liner was perforated from 366' to 375' and 412' to 415'.

Well Formation Log

From-To	Color	Formation
0 - 1		Topsoil
1 - 6	Brown	Sandy - Clay
6 - 21	Blue - Brown	Clay - Soft
21 - 24	Blue	Sandy - Clay
24 - 40	Blue	Clay
40 - 44		Clay - Boulders
44 - 62	Blue	Clay
62 - 65		Sand - Medium
65 - 74	Blue	Clay
74 - 82	Brown	Clay
82 - 87	Red	Clay - Gravel Rock
87 - 91	Red - Blue	Clay
91 - 96	Yellow - Creme	Limestone - Hard
96 - 98	Brown - Yellow	Limestone - Hard
98 - 122	Brown - Yellow	Limestone
122 - 127	Brown	Limestone
127 - 135	Cream	Limestone
135 - 149	Gray - Cream	Limestone
149 - 199	Gray - Brown	Limestone
199 - 215	Cream	Limestone
215 - 221	Gray	Limestone
221 - 230	Gray	Shale
230 - 259	Gray - Brown	Limestone
259 - 264	Cream	Limestone with Streaks of White Shale
264 - 272	Cream	Limestone
272 - 275	Gray - Cream	Limestone
275 - 291	Brown - Gray	Limestone

Bore Log

From-To	Bit Size - Number	
0 - 17	26"	Hole Opener
0 - 96	12 1/4"	
17 - 94	23" Hole Opener	
94 - 344	17"	
344 - 418	13"	
418 - 750	9 7/8"	

Well Casing Log

From-To	Casing
0 - 94	18" OD x .375" wall, A53 B, steel casing
0 - 344	14" OD x .375 wall, A53 B, steel casing
2 - 0	14" OD x .375 wall, A53 B, steel casing
2 - 0	18" OD x .375" wall, A53 B, steel casing

Screen Size
Slot Size
Riser Pipe
Set From **340` - 418`**
Tail Pipe

Well Grout Used

Amount	Type
352 sacks	Neat Cement

291 - 297	Brown	Limestone
297 - 301	Brown - Gray	Limestone
301 - 305	Gray	Shale - Rock
305 - 312	Brown	Limestone
312 - 338	Brown - Blue	Shale - Soft
338 - 344	Brown	Shale - Rock
344 - 358	Brown	Limestone & Shale Rock
358 - 364	Gray	Shale - Soft
364 - 370	Brown	Limestone with Gray Seams
370 - 383	Cream	Limestone
383 - 390	Gray	Shale - Rock
390 - 407	Gray	Shale - Soft
407 - 412	Brown - Gray	Limestone
412 - 418	Brown	Limestone
418 - 424	Gray - Brown	Limestone
424 - 458	Cream	Limestone with Green Shale Streaks
458 - 510	Brown	Limestone
510 - 562	Gray - Brown	Limestone
562 - 581	Gray - Brown	Limestone
581 - 624	Gray	Limestone with Shale Streaks
624 - 637	Brown	Limestone with Gray Seams
637 - 728	Gray	Limestone
728 - 750	Brown	Limestone

Received - 01/09/2012