67732

Shawver Well Company, Inc.
2700 Stanley Avenue
Fredericksburg, IA 50630
(563) 237-5341
(800) 568-4449

Location of Well

Wyoming, IA
T84N R1W

County **Jones**
Township **Wyoming**
Section **30**
Quarters **NENE**

Customer Information

CITY OF WYOMING

WYOMING IL, IA

Contact Date
Confirmation Date

Contact Information

Home Ph:
Work Ph:
Cell Ph:
Fax:

Best time to call:
Email:
Customer since:
Referred By:

Job Information

Area **CM**
T84N R1W
Latitude
Longitude
PWTS #
Permit Number **5396039**

Confirmation
Start Date **8/10/2009**
End Date **9/8/2009**

Warranty Date
Warranty

Well Site Information

Actual Size
Depth **1309**
Elevation
SWL **326**
RPS
Max GPM

Pump Inst -- Liner--ft
Sulfide -- Screen--
Water Tests: Iron
PH
Nitrate
Made Water **300' @ 10 GPM, 304' @ 25 GPM, 328' @ 15 GPM, 634' @ 10 GPM, 658' @ 50 GPM, 742' @ 100 GPM, 776' @ 100 GPM**

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

Screen Size
Slot Size
Riser Pipe
Set From
Perforated From
Tail Pipe
Drive Time Hours
Hotel Expenses
Rig **007 - 2007 50K**
Fuel Costs

Driller **Dave Halweg**; Cert #: **2814**
Driller 2 **Justin, Nathan**

Description:
The well is cased to 104' below grade with 16" OD X .375 wall, structural grade casing. A 19" hole was drilled to 104' to facilitate installation of the 16" casing. The 16" casing was grouted with neat cement grout utilizing a grout shoe and tremie. A 15" hole was then drilled to 295' and 205' of 13.375" OD X .380 wall, structural grade casing was installed complete with a packer (on the top) and a grout shoe installed on the bottom of the casing. The base of the 13" was grouted with 12 sacks of type 3 neat cement grout and the top of the casing (above the packer) was also grouted with 12 sacks of type 3 neat cement grout. A 12.5" hole was then drilled to 1,010'. 1,012' of 8" ID X .322 wall, A53B steel casing was installed. The casing was equipped with a grout shoe on the bottom of the casing and the 8" casing had 1.5" centering guides installed every 60'. The casing was then grouted with neat cement grout and utilizing a Braden head and rubber wiper plug. Upon curing of the grout, a 7.875" hole was then drilled to a final depth of 1,309'. The static water level upon completion was 326'. The well was test pumped at a rate of 240 gallons per minute for 12 hours. The water drew down to a final pumping level of 337.74'.

Remarks:

Well Formation Log

From-To	Color	Formation
0 - 2		Topsoil
2 - 41	Brown	Clay
41 - 44	Gray	Clay
44 - 48	Yellow	Clay
48 - 60	Yellow	Clay
60 - 67		Sand
67 - 91	Blue	Clay
91 - 97		Limerock - Shale
97 - 103	Brown	Shale - Limerock
103 - 105	Orange - Yellow	Limerock

Bore Log

From-To	Bit Size - Number	
0 - 104	19"	Hole Opener
0 - 30	12 1/4"	
30 - 105	12 1/4"	
104 - 120	15 1/8"	5G1450
120 - 295	15"	Hammer - 506208
295 - 298	12 1/2"	X670527
298 - 349	6 1/4"	
298 - 833	12 1/2"	
833 - 1010	12 1/2"	
1010 -	7 7/8" Hammer Bit - Dave	1J967

103 - 105	Orange - Yellow	Limerock
105 - 106		Limerock
106 - 109		Rock - Broken - Gravel
109 - 196	Yellow	Limerock
196 - 206	Cream - Gray	Limerock
206 - 270	Yellow	Limerock
270 - 295	Lt. Gray	Limerock
295 - 298	Cream	Limerock
298 - 340	Cream - Gray	Limerock
340 - 348	Gray	Shale - Rock
348 - 349		Shale - Rock
349 - 463	Blue	Shale - Soft
463 - 535	Blue	Shale
535 - 580	Brown	Shale
580 - 798	Brown	Limerock
798 - 829	Gray - Brown	Shale
829 - 833	Blue	Shale - Soft
833 - 838		Shale - Soft
838 - 892	Brown - Gray	Shale - Rock
892 - 902	Blue	Shale
902 - 958	White	Sandstone
958 - 962	Cream - Gray	Shale - Limerock
962 - 1023	Cream - Gray	Limerock
1023 - 1048	Brown - Gray	Limerock
1048 - 1084	Brown - Gray - Cream	Limerock - Shale - Streaks
1084 - 1098	Cream	Limerock - Chert
1098 - 1165	Brown - Cream	Limerock
1165 - 1168		Broken - Limerock
1168 - 1264	Brown	Limerock
1264 - 1268	White	Sandstone
1268 - 1276	Gray	Limerock
1276 - 1309	White	Sandstone

1138	Halweg	
1138 - 1309	7 7/8"	216195

Well Casing Log

From-To	Casing
0 - 106.1	16" x Steel
0 - 1012	8" x .322 Steel
0 - 205	13" x

Screen Size		
Slot Size		Set From
Riser Pipe		Tail Pipe

Well Grout Used

Amount	Type
551 sacks	Neat Cement
6 sacks	Holeplug
1 sacks	EZ Seal
8 sacks	Casing Seal
8 sacks	Soda Ash
30 sacks	Polarset
24 sacks	High Early
58 sacks	Quick Gel
5 sacks	Quick Trol LV