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

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

Location of Well

230th St. (2500` east of Hwy 13)
Elkader, IA 52043
T92-93N R4W

County **Clayton**
Township **Read**
Section **07**
Quarters **NW**

Customer Information

Clayton County Law Enforcement Center
Clayton County Law Enforcement Center - Clayton County Board of Supervisors
200 E. Bridge Street, P.O. Box 456
Elkader , IA 52043

Contact Date **6/7/2005**
Confirmation Date

Well #1

Contact Information

Home Ph:
Work Ph: **563-245-2451**
Cell Ph:
Fax:

Best time to call:
Email:
Customer since: **6/7/2005**
Referred By:

Job Information

Area **CM**
T92-93N R4W
Latitude
Longitude
PWTS # **2223905**
Permit Number **2006-025W**

Confirmation
Start Date **12/12/2005**
End Date **12/29/2005**
Warranty Date
Warranty

Well Site Information

Actual Size **8"**
Depth **736'**
Elevation
SWL **294'**
RPS **365' @ 200 GPM**
Max GPM **300 GPM**
Air Lift **736' @ 300 GPM**
Exploratory -- To Ft
Mock Rock -- Acidize
Well Use
Rig
Driller **Gary Martin**; Cert #: **3845**
Driller 2 **Chad Kucera, Dale Schumacher**

Pump Inst -- Liner--ft
Sulfide -- Screen--
Water Tests: **0** Iron
PH
Nitrate
Made Water **549' - 551', 560' - 562', 597' - 601', 632', 665', 689'**
Screen Size
Slot Size
Riser Pipe
Set From
Perforated From
Tail Pipe

Description:
A 17 1/2" hole was drilled to a depth of 45' and 46' of 13" temporary casing was installed and grouted with Bentonite grout. A 12-1/2" hole was then drilled into the Prairie du Chien limerock to depth of 450' and 451' of 8", .322 wall A53-B casing was installed. The casing was grouted with 275 sacks of neat cement grout using the Haliburton method and a grout shoe, the 13" temporary casing was removed when the grouting was completed. The grout settled back to 5.5' and was left at that level as a pitless unit is being installed after the well is complete. After the 72 hour curing period a 7-7/8" hole was drilled to a total depth of 736' and 47' into the Jordan sandstone, and airlifted for 2 hours, the estimated flow during development was 300 GPM. The well was test pumped on 12/29/05 with a 60HP Franklin motor and a set of T450 Berkley bowls. The pump setting was 365' at the pump intake and the static water level was observed at 294'. The well was pumped at 121 GPM for a period of 5 hours and the pumping level fluctuated between 303 and 301', the well was then pumped at a rate of 200GPM for a period of 6 hours and the pumping level lowered to 309' and remained steady through the duration of the test. The test pumping was terminated after water samples were taken and recovery was then monitored. The well recovered to the static level in 30 minutes.
Remarks:
Bore Log: Actually 46'8" (46').

Well Formation Log

From-To	Color	Formation
0 - 21	Brown	Clay
21 - 25		Sand, Medium
25 - 30	Brown	Clay
30 - 42	Blue	Clay
42 - 55	Brown	Limerock
55 - 266	Brown	Limerock, Medium
266 - 346	Brown - Blue	Shale
346 - 396	White	Sandstone
396 - 398	Blue	Shale
398 - 455	Brown	Limerock
455 - 460	Brown	Sandstone
460 - 521	Brown	Limerock
521 - 632	Tan	Limerock
632 - 640	Brown	Limerock
640 - 665	Tan	Limerock
665 - 672	White	Sandstone
672 - 689	Gray	Limerock
689 - 736	White	Sandstone

Bore Log

From-To	Bit Size - Number	
0 - 11	17 1/2"	
11 - 46	15 1/8"	
46 - 450	12 1/2"	
450 - 736	7 7/8"	V537

Well Casing Log

From-To	Casing	
0 - 450	8" x Steel	
Screen Size		
Slot Size		Set From
Riser Pipe		Tail Pipe

Well Grout Used

Amount	Type
275 sacks	Neat Cement
10 sacks	Benseal
20 sacks	Quick Jel