Overseer
ROD CUNNINGHAM
563 590 7771

63719

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

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

Location of Well

off of Jamesmeier Road
Farley, IA 52046
T88N R2W

County **Dubuque**
Township **Dodge**
Section **12**
Quarters **SE**

Customer Information

CITY OF FARLEY
CITY OF FARLEY
301 - 1ST STREET NE
FARLEY, IA 52046

Contact Date
Confirmation Date **12/21/2006**

Contact Information

Home Ph:
Work Ph: **563-744-3475**
Cell Ph:
Fax: **563-744-3303**

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

Job Information

Area **CM**
T88N R2W
Latitude
Longitude
PWTS # **3135018**
Permit Number

Confirmation **12/21/2006**
Start Date **2/21/2007**
End Date **3/15/2007**
Warranty Date
Warranty

High Radio Nuclides R226
check Pdc Poro
could it be acidized to
drop Radio
Mason says pack off Jordan
To Avoid Acidvise
Pdc 50 GPM
Bottom 50' Jordan made water

D Pole - look for orientation Block

Well Site Information

Actual Size **10"**
Depth **1265'**
Elevation
SWL **472'**
RPS
Max GPM **500 GPM**

Pump Inst -- Liner--ft
Sulfide -- Screen--
Water Tests: Iron
PH
Nitrate

Made Water **884' - 10 GPM, 964' - 20 GPM, 1061' - 40 GPM, 1260' - 50 GPM**

Air Lift **3.5 hours - 1265' - 500 GPM**
Exploratory -- To Ft
Mock Rock -- Acidize --
Well Use
Rig **30K - 2002**

Screen Size
Slot Size
Riser Pipe
Set From
Perforated From
Tail Pipe

Driller **Dave Halweg**; Cert #: **2814**
Driller 2 **Dale S., Joe D., Marc D., Luke K.**

Description:
The well is cased to from .5' above grade to 105' below graded with 105.5' of 16" OD X .375 wall steel casing. A 21" hole was drilled to 105' to facilitate placement of the casing. The annular space was grouted with 142 sacks of neat cement grout that was pumped through a grout shoe and was conducted through the grout shoe with a 2" tremie pipe. Polar set, an accelerator to set the grout was added to the grout to minimize the grout set time to 24 hours. The well is then cased from 1' above grade to 870' below grade with 871' of 10" ID X .365 wall, A53B, steel casing. A 15" hole was drilled from 105' to 870' to facilitate placement of the casing. 1.5" centering guides were attached to the casing to facilitate centering of the casing in the borehole. 601 sacks of neat cement grout was used to seal the annular space. A Braden head, rubber plug and cement shoe were used to facilitate the grouting process. After the grout was allowed to set for 72 hours, a 9.875" hole was then drilled through the underlying Prairie du Chien and Jordan Sandstone formations. The well was airlifted upon completion and the estimated flow from the well via airlifting was estimated at 500 gallons per minute. The static water level upon completion of the drilling was observed at 472'.

Remarks:

Well Formation Log

From-To	Color	Formation
0 - 2	Yellow - Black	Limerock - Dirt
2 - 5	Brown	Clay, Sandy
5 - 14	Brown	Sand w/ Clay Streaks
14 - 36	Blue	Clay
36 - 38	Brown	Sand & Gravel
38 - 45	Blue	Clay, Sandy
45 - 57		Gravel, medium
57 - 69	Blue	Clay
69 - 82		Sand, Medium to Coarse
82 - 86	Blue	Clay
86 - 93		Sand, Medium to Fine
93 - 96	Green	Shale
96 - 101	Yellow - Tan	Limerock, Soft
101 - 108	Yellow - Creme	Limerock, Fair

Bore Log

From-To	Bit Size - Number	
0 - 14	12 5/8"	8417
0 - 41	7 7/8" Wing	07F172959
0 - 18	26"	Tricone
14 - 107	12 1/4"	111102
18 - 105	21"	Hole Opener
41 - 88	6 1/4"	A62 30 50 STR
101 - 114	15 1/8"	5G1450
114 - 576	15 Hammer	603023
576 - 870	15" Hammer	507006
870 - 1265	9 7/8" Tricone	61406JS

Well Casing Log

From-To	Casing
0 - 105.5	16" x Steel
0 - 870	10" x .375 Steel

Screen Size

63719

108 - 124	Cream - Tan	Limerock, Fair
124 - 167	Cream	Limerock
167 - 184	Cream - Tan	Limerock
184 - 211	Gray - Cream	Limerock
211 - 223	Brown - Gray	Limerock
223 - 406	Blue	Shale
406 - 468	Brown	Shale
468 - 493	Lt. Brown	Limerock, Galena
493 - 570	Buff & Brown	Limerock
570 - 576	Lt. Brown	Limerock, Soft
576 - 648	Lt. Brown	Limerock
648 - 654	Gray - Brown	Limerock
654 - 679	Lt. Brown	Limerock
679 - 687	Gray	Shale
687 - 694	Blue - Green	Shale
694 - 727	Blue - Gray - Brown	Shale Rock
727 - 768	Dark Blue & Gray	Shale Rock
768 - 772	Blue	Shale
772 - 817	White - Gray	Sandstone
817 - 820	Blue & Lt. Brown	Limerock
820 - 870	Lt. Brown	Limerock
870 - 910	Brown - Gray	Limerock
910 - 940	Gray	Limerock
940 - 991	Lt. Brown - Gray	Limerock
991 - 992	Blue	Shale, Hard
992 - 1012	Gray - Brown	Limerock
1012 - 1128	Pink & Brown	Limerock
1128 - 1170	Brown & Pink	Limerock, Sandstone Streaks
1170 - 1230	White	Sandstone
1230 - 1260	White & Pink	Sandstone & Limerock
1260 - 1265	Lt. Gray	Limerock

Slot Size	Set From
Riser Pipe	Tail Pipe

Well Grout Used

Amount	Type
743 sacks	Neat Cement
1 sacks	High Early
112 sacks	Quick Jel
44 sacks	Aqua Jel
17 sacks	Quick Trol LV