## WELL RECORD 077790 PWTS Permit N 37458

lowa Department of Natural Resources Geological Survey 109 Trowbridge Hall Iowa City, Ia. 52242-1319 PH (319) 3

Natural Resources Geological Survey Bureau	PWTS Well No.:2163064	County Permit No
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Site identification	Drill method  rotary auger cable other	
Property Owner: KROUL FARM & GARDEN Other ID:	Hole size	
Address 245 HWY 1 S. MT VERNON. IA 52314	10 inch from 0 ft t 40 ft 4 inch from 178 ft t 180 ft	
Tenant	8.5 Inch from 40 ft t 178 ft Inch from ft t ft	
Well Depth: 180 ft Date Completed: 9/19/2012 Casing Drive shoe Pitless adaptor		
Location County LINN COUNTY	Size (ID/OD) Type/ Wt Depth top Depth bottom Amount (length)	
mi. N andmi. E of intersection of and	6° PVC +2 178 180	
NW 1/4 of the <u>SW</u> 1/4 of the <u>SE</u> 1/4 of Sec <u>30</u> TW <u>82</u> RN <u>5W</u> E		
GPS Coordinateds (NAD83 datum only) decimal degrees:		
41.8756713 N. Latitude91.470703 W. Longitude.		
Show exat location of well in section grid with a dot (+), sketch map of well location on property.	Perforated or slotted casing?	
Show exact location of was in Section 3.10 miles of C. J. Miles	Perforated Slotted from ft t	
, n	Perforated Slotted from ft t ft	
- -   - -   N	Casing grouted?  Grouted Placement method: HALLIBURTON	
	Type Depth top Depth bottom Amount (vol/wt)	
w	BENSEAL 0 178 10 BAGS	
200 ft	Well Screen? Screen	
	Diameter   Slot size   Depth top   Depth bottom   Lenght   Material	
upland hillside valley level surface Elevation (if known)		
Formation log		
From   To   Color   Hardness   Formation description	Bottom Capped With	
0 18 BROWN SOFT SAND/GRAVEL	Seals/Packers	
18 26 GRAY SOFT CLAY	Gravel packed from to fi	
26 34 MIX SOFT SAND/GRAVEL	type amount	
34 174 GRAY M/SOFT SANDY CLAY		
174 180 TAN MED LIMESTONE	Well developed? Well Developed	
	Explain AIR	
	pumped vairified bailed for 1 hrs at 35 GPM	
	Pump installed? Pump Installed Date	
	Installer's Name	
	Type of Pump Depth to Intake 6	
	Pump diameter Rated Capacity GPM GPM	
	Water information ☐ Sand/gravel ☑ Limestone ☐ Sandstone  Main water-supply zone 1 from 178 ft to 180 ft ☐ seepage well	
	Main water-supply zone 1 from 178 ft to 160 ft 178 ft to 160 ft	
	Static water level 20 ft (below/above) G airline E-lina estimate	
	Pump water level 80 ft (below GL tape airline E-line estimate	
Remarks (including depth of lost drilling fluids, materials, or tools)	At yield of 35 GPM; Orifice Volumetric Estimate for hours  Measurement taken at 2:00:00 PM Date 9/19/2012	
	Water quality test? Date Tested by	
Well use	Contractor name GINGERICH WELL PUMP SERVICE, LLC	
Livestock Public Supply Other	Adress 1331 HWY 1, KALONA, IA 52246	
Test Well Irrigation	Driller Jim Kelso Certification no. 3391	