110 a 2014

 $0\,79\,0\,8\,2_{\text{PWTS Permit N}}$ WELL RECORD PWTS Well No.: Iowa Department of Natural Resources Geological Survey Bureau County Permit No 2015-0019W 109 Trowbridge Hall Iowa City, Ia. 52242-1319 PH (319) 335-1575 Site identification Drill method ✓ rotary □ auger □ cable other Property Owner: CLARKS FERRY RECREATION AREA Other ID: ____ Hole size Address SUNSET BEACH, MONTPELIER, IA 52759 <u>15</u> inch <u>0</u> ft 20 ft inch from 211 ft 355 ft Tenant _ 10 inch from 20 ft t 211 ft inch from Ħ ft Well Depth: 355 Date Completed: 11/11/2014 Drive shoe Casing Pitless adaptor County MUSCATINE COUNTY BOARD OF HEA Location Size (ID/OD) Type/ Wt Depth bottom Depth top Amount (length) 6 SCH40 _mi. N and ____mi. E of intersection of _____ and ___ STEEL <u>SW</u> 1/4 of the <u>NW</u> 1/4 of the <u>SE</u> 1/4 of Sec <u>23</u> TW <u>77N</u> RN <u>1E</u> <u>E</u> GPS Coordinateds (NAD83 datum only) decimal degrees: _N. Latitude ___ W. Longitude. Perforated or slotted casing? Show exat location of well in section grid with a dot (+), sketch map of well location on property. Perforated Slotted from Perforated Slotted from ft t ft N Casing grouted? Grouted Placement method: ₹ Type Depth top Depth bottom Amount (vol/wt) ATTACHED GROUT NOTES 200 ft s Well Screen? Diameter Slot size Depth top Depth bottom upland ☐ hillside ✔ valley ☐ level surface Elevation (if known) _ Lenght Materia! Formation log From | To Color **Hardness** Formation description **Bottom Capped** SEE ATTACHED Seals/Packers | kind depth ft Gravel packed non 🗀 ft to amount type Well developed? ✓ Well Developed Explain WITH AIR

Commerical

Monitoring

Other

Pump installed?	✓ Pump Installed	Date	
Installer's Name			
Type of Pump		Depth to Intake	ft
Pump diameter	Rate	ed Capacity GPM	GPM
•	a 1 from 211 2 2 from 33 ft (below/above) G 79 ft (below GL	ft to <u>355</u> ft sea ft to ft sea tap alrine E-	ndstone epage well line estimate line estimate hours
Water quality test	? □	Date	
Tested by			

Contractor name GINGERICH WELL PUMP SERVICE, LLC

Adress

Driller Klint Gingerich

1331 HWY 1, KALONA, IA 52246

3 hrs at 200

Certification no. 2639

Make photocopies for Weil Contractor, and County Health Department

GPM

Heat Pump

Municipal

Irrigation

Public Supply

Well use

Domestic

Livestock

Test Well

Clark's Ferry Recreation Area

Grout Summary

at cement pumped aroudn the bottom of the casing @ 211' at cement placed with trimmie @ 147'
at cement placed with trimmie @ 126'
8" Hole plug placed from surface to 125'
nseal trimmied to 120'
at cement trimmied to 120'
at cement trimmied to 80'
at cement trimmied to 40'
<u>a</u>

W912EK-14-C-0094

Clark's Ferry Recreational Area FIELD NOTES FROM DRILLING

Date: November 6, 2014

Page: Pg 1 of 2 Boring No.: WL-02

Driller Name: Gingerich Well & Pump Service - Klint Gingerich

Geologist Name: Lisa Whited

Depth		Rock Type	Description	Fizz
0	5	Shale	Black, weathered, root fibers	N
5	5 10 Limestone		Grey, weathered, root fibers	Y
			(Residual above)	+
			(Bedrock below)	†
10	15	Limestone	Grey	Y
15	20	Limestone	Grey	Y
20	25	Limestone	White & grey (air rotary began)	Y
50	55	Limestone	Included Bryozoan, shell fragments	Y
65	70	Limestone	Included shell fragments	Y
70	75	Limestone	Tan	Y
75	80	Limestone	Tan .	N
80	100	Limestone	White & grey	Y
100	125	Dolomite	Grey	N
125	130	Dolomite	Dark grey, sandy - water flow	N
130	140	Sandston/Limestone	Pyrite crusts - void, low return	N
140		Dolomite	Grey & dark grey	N
155	165	Dolomite	Grey	N
165	170	Dolomite	Grey, pyrite crystals	N
170	180	Dolomite	Grey, Crinoid stems, vuggy	N
180	210	Dolomite	Grey	N
210	211		Drillied - Bottom of borehold @ 211 bags	
			casing set @ 211 bags	

W912EK-14-C-0094

Clark's Ferry Recreational Area FIELD NOTES FROM DRILLING

Date: November 10, 2014

Page: Pg 2 of 2 Boring No.: WL-02

Driller Name: Gingerich Well & Pump Service - Klint Gingerich

Geologist Name: Lisa Whited

Depth		Rock Type	Description	Fizz
211	215	Limestone	White, trace shale stained red	Y - turned yellow/green
215	235	Limestone	White, vuggy	Y turned yellow/green
235	240	Limestone	White, trace shale with pyrite	Y - turned yellow/green
240	290	Dolomite	White, crinoid stems	N
290	350	Limestone	White	v
350	355	Limestone	White, crinoid stems	lŷ.
			(bottom of borehole @ 355' bgs)	

1331 HWY 1 Kalona, IA 52247

"YOUR WELL BEING OUR BUSINESS"

Gingerich

Well & Pump Service, LLC

Pump Man:
Emery Gingerich
Klint Gingerich
Corwin Gingerich

WELL DRILLING, PUMP SERVICE & REPAIR 319-656-2664

CLARKS FERRY RECREATION AREA,		DATE DRILLED	11/11/2014			
SUNSET BEACH MONTPELIER		PELIER	DEPTH OF WELL	355		
воттом 6		CASED TO 211	WITH 6 SCH40	TYPE STEEL		
FROM	то_	AND WITH	FROM	то_		
FROM		то	DEPTH TO_	ROCK	10	
211	TO 355	AND FRO	M	то		
		TYPE OF M	ΓΥΡΕ OF MATERIAL			
T OPENING TOTAL LENGTH		тн	FEET EXPOSE	D		
STATIC WATER LEVEL 33 PUMPING LEVEL 79			AT 110	_GPM		
DRILLING FOREMAN Klint Gingerich						
	SUNSET BEA BOTTOM 6 FROM FROM 211 TO	SUNSET BEACH MONT BOTTOM 6 FROM TO FROM TO 355 TOTAL LENG	SUNSET BEACH MONTPELIER BOTTOM 6 CASED TO 211 FROM TO AND WITH TO 211 TO 355 AND FRO TYPE OF N TOTAL LENGTH PUMPING LEVEL 79	SUNSET BEACH MONTPELIER DEPTH OF WELL BOTTOM 6 CASED TO 211 WITH 6 SCH40 FROM TO AND WITH FROM FROM TO DEPTH TO DEPTH TO 211 TO 355 AND FROM	SUNSET BEACH MONTPELIER DEPTH OF WELL BOTTOM 6 CASED TO 211 WITH 6 SCH40 TYPE STEEL FROM TO AND WITH FROM TO FROM TO DEPTH TO ROCK 211 TO 355 AND FROM TO TYPE OF MATERIAL TOTAL LENGTH FEET EXPOSED EL 33 PUMPING LEVEL 79 AT 110	