LAKESIDE

W-32199

Township Name: Badger | Township Number: T-90 N/S | Range Number: R-29 E/W | Section No: 29 | Location: SE SE NW

Distance and Direction from Road Intersections or Street Address and City of Well Location

Show exact location of well in section grid with "X"

Sketch map of well location

N / W / E / S — 1 mile — ½ mi.

Addition Name

Block Number

Lot Number

1. PROPERTY OWNER'S NAME: Kennedy Park

Address: Fort Dodge

DNR

APR 19 1991

GEOL. SURVEY

4. WELL DEPTH (completed): ft.

Date of Completion: 3/15/90

5. 1☐ Cable tool 2☐ Hollow rod 3☒ Rotary 4☐ Reverse 5☐ Air 6☐ Jetted 7☐ Driven 8☐ Bored 9☐ Sewer Auger 10☐ Dug 11☐ _____

6. USE: 1☐ Domestic 2☐ Irrigation 3☐ Test Well 4☐ Public Supply 5☐ Municipal 6☐ Air Conditioning 7☐ Industry 8☒ Commercial 9☐

7. CASING: 1☐ Black 2☐ Galv 3☒ Plastic 4☐ Threaded 5☐ Welded 6☐ Other — HEIGHT: Above/Below — Surface _____ ft. — Drive Shoe? Yes ___ No X

6" in. to 60 ft. Weight 200 lbs./ft.

_____ in. to _____ ft. Weight _____ lbs./ft.

_____ in. to _____ ft. Weight _____ lbs./ft.

HOLE DIAM: 8¾ in. to 60 ft. — 5¾ in. to 690 ft. — ___ in. to ___ ft.

8. SCREEN: Make NC — Type _____ Dia. _____ — Slot/Gauge _____ Length _____ — FITTINGS: — Set between _____ ft. and _____ ft. — _____ ft. and _____ ft.

Or open hole from 60 ft. to 690 ft.

9. STATIC WATER LEVEL: 34' ft. ☒ below ☐ above land surface — Date Measured 3-15-90

10. PUMPING LEVEL (below land surface)

_____ ft. after _____ hrs. pumping _____ g.p.m.

_____ ft. after _____ hrs. pumping _____ g.p.m.

11. WELL HEAD COMPLETION: 1☐ Pitless adapter manufacturer _____ model _____ — 2☐ Basement offset — 3☐ At least 12" above grade

12. WELL GROUTED? ☒ Yes ☐ No

1☐ Neat Cement 2☒ Bentonite 3☐ _____

Grout material Bentonite from 0 to 60 ft. Cu. Yds. _____

13. NEAREST SOURCES OF POSSIBLE CONTAMINATION

500' feet — S direction — FARM type

Well disinfected upon completion? Yes☒ No☐

14. PUMP

Date Installed _____ ☒ Not Installed

Manufacturer's Name _____

Model Number _____ HP _____ Volts _____

Length of drop pipe _____ ft. capacity _____ g.p.m.

Material of drop pipe _____

Type: 1☐ Submersible 2☐ Jet 3☐ L.S. Turbine 4☐ Centrifugal 5☐ Reciprocating 6☐ _____

7. FORMATION LOG	COLOR	HARDNESS OF FORMATION	FROM	TO
Top Soil	Black	S	0	2
Clay	Yellow	S	2	12
Clay	Blue	S	12	29
Clay	Green & Yellow	S	29	62
Clay	Red	S	62	65
Clay	Gray	S	65	69
Clay & rock	Gray	S	69	71
Layers of rock and shale	White & Green	alittle hard	71	84
Limerock	off white	not too Hard	84	85
Sandstone	off white	Soft	85	87
Limestone	white	Soft	87	106
Sandstone 10 GPM	white	Soft	106	108
Limestone	Brown	Hard	108	111
Shale	Green	Soft	111	116
Sandstone	white gray	Soft & fine	116	128
Limestone	white blue	med Hard	128	129
Shale	Blue & Gray	soft	129	133
Limestone	Brown	Hard	133	136
Shale & Limestone	Black	Soft	136	141

Use a second sheet if needed

15. REMARKS, ELEVATION, SOURCE OF DATA, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Schumacher Well DRILLING — Licensee Business Name — License No.

Address RR 2 Box 6 Algona IA

Signed _____ Date _____

Authorized Representative

Jim Schumacher Date 3-15-90

Name of Driller

WATER WELL RECORD

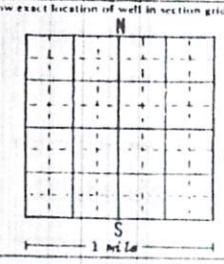
W-32199

1. LOCATION OF WELL
County Name

Township Name | Township Number N or S | Range Number E or W | Section No. | Quarter

Distance and Direction from Road Intersections or Street Address and City of Well Location

Show exact location of well in section grid with "X"



Addition Name
Block Number
Lot Number

3. PROPERTY OWNER'S NAME
Address

4. WELL DEPTH (completed) ft. | Date of Completion

5. 1☐ Cable tool 4☐ Reverse 7☐ Driven 10☐ Dug
2☐ Hollow rod 5☐ Air 8☐ Bored 11☐ _____
3☐ Rotary 6☐ Jetted 9☐ Power Auger

6. USE
1☐ Domestic 4☐ Public Supply 7☐ Industry
2☐ Irrigation 5☐ Municipal 8☐ Commercial
3☐ Test Well 6☐ Air Conditioning 9☐

7. CASING HEIGHT: Above/Below
1☐ Black 4☐ Threaded
2☐ Galv 5☐ Welded Surface _____ ft.
3☐ Plastic 6☐ Drive Shoe? Yes ___ No ___
_____ in. to _____ ft. Weight _____ lbs./ft.
_____ in. to _____ ft. Weight _____ lbs./ft.
_____ in. to _____ ft. Weight _____ lbs./ft.

HOLE DIAM
___ in. to ___ ft.
___ in. to ___ ft.
___ in. to ___ ft.

8. SCREEN
Make _____ Or open hole from _____ ft. to _____ ft.
Type _____ Dia. _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
_____ ft. and _____ ft.
FITTINGS:

9. STATIC WATER LEVEL
_____ ft. ☐ below ☐ above land surface Date Measured _____

10. PUMPING LEVEL (below land surface)
_____ ft. after _____ hrs. pumping _____ g.p.m.
_____ ft. after _____ hrs. pumping _____ g.p.m.

11. WELL HEAD COMPLETION
1☐ Pitless adapter, manufacturer _____ model _____
2☐ Basement offset 3☐ At least 12" above grade

12. WELL GROUTED? ☐ Yes ☐ No
1☐ Neat Cement 2☐ Bentonite 3☐ _____
Grout material _____ from _____ to _____ ft., Cu. Yds. _____

13. NEAREST SOURCES OF POSSIBLE CONTAMINATION
_____ feet _____ direction _____ type
Well disinfected upon completion? Yes☐ No☐

14. PUMP
Date installed _____ ☐ Not installed
Manufacturer's Name _____
Model Number _____ HP _____ Volts _____
Length of drop pipe _____ ft. capacity _____ g.p.m.
Material of drop pipe _____
Type: 1☐ Submersible 3☐ L. S. Turbine 5☐ Reciprocating
2☐ Jet 4☐ Centrifugal 6☐ _____

2. FORMATION LOG	COLOR	HARDNESS OF FORMATION	FROM	TO
Limestone	Brown	med Hard	141	145
Limestone & Quartz	White Brown	Hard	145	147
Limestone	white	soft	147	149
Limestone	brown	hard	149	176
Shale clay	Blue	soft	176	178
Shale & quartz clay	Gray	soft	178	183
Limestone	brown	hard	183	184
Shale rock	Gray	soft	184	186
clay shale	Gray	soft	186	198
Limestone	white gray	med hard	198	204
shale	black Gray	soft	204	211
Limestone	brownish	soft	211	225
Limestone	white	hard	225	293
Dolomite 20 GPM	white	soft	293	301
sandstone 75 GPM	brown	soft med	301	314
Limestone	white brown	hard	314	363
Dolomite some water	light brown	soft	363	374
Shale like rock	Gray	hard	374	376

Use a second sheet, if needed

15. REMARKS, ELEVATION, SOURCE OF DATA, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

_____ License No. _____
Licensee Business Name

Address _____

Signed _____ Date _____
Authorized Representative

_____ Date _____
Name of Driller

Formation	Color	Hardness	From	To
Limestone	Light White	Hard	374	429
Limestone	Gray	Soft	429	457
Limestone	Brownish White	med Hard	457	488
Dolomite	Gray	Soft	488	516
Sandstone	White	med Hard	516	524
Dolomite	Light Dark Gray	Soft	524	531
Sandstone water	White & light brown	med Hard	531	542
Limestone	Brown	med Hard	542	550
Limestone	Light Gray	Softer	550	556
Limestone	Light Gray White	med Hard	556	567
Porous Rock	Gray & off White	Soft	567	569
Sandstone (Picked up more water)	White	Soft	569	586
Sandstone w/water	White & off white	Harder	586	610
Layers Limerock & Sand	White	med Hard	610	625
Rock	Dark Brown	med Hard	628	689
Rock	Dark Gray	med Hard	636	647
Limerock water	off white	Softer	647	671
Limestone water	off white	Harder	671	674
Limestone water	light Gray & white	Softer	674	686
Limestone water	Light Gray	med Hard	686	690

INFORMATION ON OLD WELL

Age _____

Location from new well

_____

_____

_____

Hole diameter _____

Depth _____

Plugged with _____

_____

_____

_____

Date plugged _____

_____

Reason for well failure

_____

_____

_____

_____

_____

(Signature)

SAMPLE TRACKING FORM

WNUMBER: 32199 DATE RECEIVED 01/24/91

OWNER: KENNEDY PARK

LOCATION: WEBSTER COUNTY, IOWA T90N R28W SECTION 29 BDD

LATITUDE: LONGITUDE: LL ACC:

ELEVATION: ELEV ACC: QUAD NAME:

TOTAL DEPTH: 690 BEDROCK DEPTH: 60 AQUIFER: Bedrock ABANDONED:

TYPE SAMPLE(S): chip STRAT DATA: 9 GEOPHYSICAL DATA:

WELL TYPE: Test PUMP TEST: WATER ANALYSIS:

DRILLER: SCHUMACHER WELL CO. DRILL DATE: 03/15/90 DRILL METHOD: Rotary

STRIPLOG BY/GEOLOGIST: STRIPLOG DATE/STUDY DATE: / / MIRCOFILMED:

HYDROLOGIC INFORMATION

MAIN WATER TOP: 647 MAIN WATER BOTTOM: 690

SWL: 34 (ft) YIELD: 350 (gpm) PUMPING LEVEL: (ft)

CASING SCHEDULE

NUMBER OF CASING STRINGS: 1

(1) DIAM: 6.00 (in) TYPE: PVC DEPTH TOP: (ft) DEPTH BTM: (ft) AMT: 60.0 (ft)

GROUT SCHEDULE

NUMBER OF GROUT STRINGS: 1

(1) GROUT TYPE: BENT GROUT TOP: (ft) GROUT BOTTOM: 60 (ft)

SAMPLE LOCATION

NUMBER SAMPLES: 54 INTERVAL: 12 (ft) NUM BOXES: 1

SAMPLE TOP: (ft) SAMPLE BOTTOM: 690 (ft) WASH TOP: 60 (ft) WASH BOTTOM: 690 (ft)

CHIP SAMPLE STORAGE: OD2-677 CUT DATE: 04/19/91