Minnesota Unique Well Number

789239

County Otter Tail
Quad Dent
Quad ID 237C

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Entry Date 07/16/2013
Update Date 10/22/2018
Received Date 01/31/2013

Well Name	Township	Range	Dir	Section	Subsection
HOGER, ED	135	40	W	8	DDCCBC

Elevation 1334 **Elev. Method** LiDAR 1m DEM (MNDNR)

Address

Contact 5005 WILLOW DR SAN JOSE CA 95124
Well 38153 YAQUINA BAY RD DENT MN 56528

Stratigraphy Information

Geological Material	From	To (ft.)	Color	Hardness
SAND	0	30	BROWN	MEDIUM
CLAY-SAND	30	75	BROWN	MEDIUM
CLAY	75	160	BLUE	MEDIUM
SAND	160	167	GRAY	MEDIUM
MEDIUM SAND	167	174	GRAY	MEDIUM

Remarks

SCREEN--FITTINGS--K-PACKER
DRILLING FLUID: BENTONITE-GEL

Well Depth 174 ft. **Depth Completed** 174 ft. **Date Well Completed** 06/04/2012

Drill Method Non-specified Rotary **Drill Fluid** Additive (+ Bentonite)

Use domestic **Status** Active

Well Hydrofractured? **Yes** ☐ **No** ☐ **From** **To**

Casing Type Single casing **Joint** Unknown
Drive Shoe? **Yes** ☐ **No** ☐ **Above/Below**

Casing Diameter	Weight	Hole Diameter
4 in. To 169 ft.	lbs./ft.	7.8 in. To 50 ft.
		6.7 in. To 174 ft.

Open Hole From ft. To ft.

Screen? ☒ **Type** stainless **Make** JOHNSON

Diameter	Slot/Gauze	Length	Set
4 in.	15	5 ft.	169 ft. 174 ft.

Static Water Level
12 ft. land surface Measure 06/04/2012

Pumping Level (below land surface)
174 ft. 2 hrs. Pumping at g.p.m.

Wellhead Completion
Pitless adapter manufacturer MONITOR Model B4B0
☐ Casing Protection ☒ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Grouting Information Well Grouted? ☒ Yes ☐ No ☐ Not Specified

Material	Amount	From	To
bentonite	3 Sacks	ft.	50 ft.

Nearest Known Source of Contamination
400 feet North Direction Septic tank/drain field Type
Well disinfected upon completion? ☒ Yes ☐ No

Pump ☐ Not Installed Date Installed 06/04/2012
Manufacturer's name FRANKLIN
Model Number 10LD10 HP 1 Volt 230
Length of drop pipe 40 ft Capacity 10 g.p. Typ Submersible

Abandoned
Does property have any not in use and not sealed well(s)? ☒ Yes ☐ No

Variance
Was a variance granted from the MDH for this well? ☐ Yes ☒ No

Miscellaneous
First Bedrock Aquifer Quat. buried
Last Strat sand-gray Depth to Bedrock ft
Located by Minnesota Geological Survey
Locate Method GPS SA Off (averaged) (15 meters)
System UTM - NAD83, Zone 15, Meters X 289396 Y 5154806
Unique Number Verification Site Plan Input Date 12/15/2017

Angled Drill Hole

Well Contractor
Antonsen Well Drilling, Inc. 2147 HADEN
Licensee Business Lic. or Reg. No. Name of Driller