83590

# STATE OF ALASKA
## DEPARTMENT OF NATURAL RESOURCES
### DIVISION OF MINING, LAND & WATER
### Alaska Hydrologic Survey

# WATER WELL LOG Revised 08/18/2016

Drilling Started: ___/___/_____ Completed: 5 / 7 / 1997 Pump Install: ___/___/_____

| City/Borough | Subdivision | Block | Lot | Property Owner Name & Address |
|---|---|---|---|---|
| | | | | Wolverine Supply Inc , |

**Well location: Latitude** 61.50898 **Longitude** -144.45122
Meridian C Township 004S Range 005E Section 23 , SW 1/4 of NW 1/4 of SW 1/4 of NE 1/4

**BOREHOLE DATA:** (from ground surface)
Suggest T.**M. Hanna's hydrogeologic classification system*** https://my.ngwa.org/NC__Product?id=a185000000BYub3AAD

| | Depth From | To |
|---|---|---|
| Gravel pad | 0 | 5 |
| Coarse gravel and silt | 5 | 30 |
| Sand and gravel | 30 | 47 |
| Silty sand | 47 | 106 |
| Sand and gravel | 106 | 117 |
| Silty sand | 117 | 122 |
| Sand and gravel | 122 | 126 |
| Coarse gravel and silt | 126 | 130 |
| Gravel and silt | 130 | 200 |
| Moist gravel and silt | 200 | 208 |
| Moist gravel with little clay | 208 | 218 |
| Silty gravel and little water | 218 | 223 |
| Coarse gravel and water | 223 | 260 |
| | | |
| | | |
| | | |
| | | |

Include description or sketch of well location (include road names, buildings, etc.):

North

Drilling method: ☒ Air rotary, ☐ Cable tool, ☐ Other _____
Well use: ☒ Public supply, ☐ Domestic, ☐ Reinjection, ☐ Hydrofracking
☐ Commercial, ☐ Observation/Monitoring, ☐ Test/Exploratory, ☐ Cooling,
☐ Irrigation/Agriculture, ☐ Grounding, ☐ Recharge/Aquifer Storage,
☐ Heating, ☐ Geothermal Exploration, ☐ Other _____
Fluids used: _____

Depth of hole: 260 ft Casing stickup: 3 ft
Casing type: Steel Casing thickness: .25 inches
Casing diameter: 6 inches Casing depth: 260 ft
Liner type: _____ Depth: _____ ft Diameter: _____ inches
Note: _____

Well intake opening type: ☐ Open end, ☐ Open hole, ☒ Other screened
Screen type: _____, Screen mesh size: _____
Screen start: 155 ft, Screen stop: 160 ft, Perforated ☐ Yes ☒ No
Perforation description: _____ Perf from: _____ ft, Perf to: _____ ft, Perf from: _____ ft, Perf to: _____ ft
Gravel packed ☐ Yes ☒ No Gravel start: _____ ft , Gravel stop: _____ ft
Note: _____

Static water (from top of casing): 200 ft on ___/___/_____ Artesian well ☐
Pumping level & yield: _____ feet after _____ hours at 35 gpm
Method of testing: _____
Development method: _____ Duration: _____
Recovery rate: _____ gpm

Grout type: Bentonite Volume _____
Depth: From _____ ft, To _____ ft

Final pump intake depth: _____ ft Model: _____
Pump size: 3 hp Brand name: Grundfos

Was well disinfected upon completion? ☒ Yes ☐ No
Method of disinfection: Chlorine
Was water quality tested? ☐ Yes ☒ No
Water quality parameters tested: _____

Well driller name: .....
Company name: HEFTY DRILLING .....
Mailing address: .....
City: _____ State: AK Zip: _____
Phone number: (_____) _____- _____
Driller's signature: _____
Date: _____/_____/_____

AS 41.08.020(b)(4) and AAC 11 AAC 93.140(a) require that a copy of the well log be submitted to the Department of Natural Resources within **45 days of well completion**. Well logs may be submitted using the online well log reporting system available at:

https://dnr.alaska.gov/welts/

OR email electronic well logs to

dnr.water.reports@alaska.gov

Anchorage Municipal Code 15.55.060(I) and North Pole Ordinance 13.32.030(D) require that a copy of this well log be submitted to the Development Services Department/City within **30 days of well completion**.

City Permit Number: _____
Date of Issue: _____/___/_____

Parcel Identification Number: _____-_____-_____

*Guide for Using the Hydrogeologic Classification System for Logging Water Well Boreholes by Thomas M. Hanna NGWA Press

WELL LOG

8223662

# HEFTY DRILLING

*Well Water — it's naturally better!*

3540 AKULA DRIVE
ANCHORAGE, ALASKA 99516
TELEPHONE:
(907) 345-0593

Permit Number _____ Date Of Issue 5-20-97 Tax Identification Number 92-013-7958

Date Started ___-___-___ Date Completed 5-7-97 Is well located at approved permit location? ☐ Yes ☐ No

| Legal Description | Block | Lot |
|---|---|---|
| | | |

Property Owner Name & Address:
Wolverine Supply, Inc.
5101 East Parks Highway
Wasilla, AK. 99654
Chitna well

Method Of Drilling: ☒ Air rotary ☐ cable tool

Casing Type: Steel Wall Thickness .028 inches
Diameter 6 inches, depth 200 feet

Liner Type: _____ Diameter ____ inches, depth ____ feet
Casing Stickup Above Ground: 3 feet

Static Water Level (from ground level): 200 feet
Pumping Level: ____ feet after ____ hrs. pumping ____ gpm

Recovery Rate: ____ gpm
Method Of Testing: _____

Well Intake Opening Type: ☐ Open End ☒ Open Hole
☒ Screened: Start 185 feet Stopped 160 feet
☐ Perforations Start ____ feet Stopped ____ feet

GroutType: Bentonite Volume _____
Depth: from _____ feet, to _____ feet

Pump Intake Depth: ____ feet
Pump Size 3 hp Brand Name Grundfos

Well Disinfected Upon Completion? ☒ Yes ☐ No
Method Of Disinfection Chlorine

Comments:
GPM = 35

| Borehole Data: Soil Type & Thickness & Water Strata | Depth From | Depth To |
|---|---|---|
| Gravel Pad | 0 | 5 |
| Coarse Gravel + Silt | 5 | 30 |
| Sand + Gravel | 30 | 47 |
| Silty Sand | 47 | 106 |
| Sand + Gravel | 106 | 117 |
| Silty Sand | 117 | 122 |
| Sand + Gravel | 122 | 126 |
| Coarse Gravel + Silt | 126 | 130 |
| Gravel + Silt | 130 | 200 |
| Moist Gravel + Silt | 200 | 208 |
| Moist Gravel w/ little Clay | 208 | 218 |
| Silty Gravel + little water | 218 | 223 |
| Coarse Gravel + Water | 223 | 260 |
| | | |
| | | |

Well Driller Name Todd Kukowski
Company Hefty Drilling
Mailing Address 3540 Akula Dr.
City Anch. State AK Zip 99516

Attention: The well driller shall provide a well log to the property owner within 30 days of completion.

AQUIFER TEST FIELD DATA SHEET

Page 1 of 1

Project No. AK94C-01100911 Project Name AK IND DUPLEXES/TOWNHOUSES Well # _____

Location of Well Chitina

Depth of Well 210 ft. Length of Casing 210 ft. Pumped Well/Observation Well

If Observation Well, Dist. to Pumped Well _____ ft. Top of Casing to Static Level 200

Date Drilling Completed 5/26/97 Driller Todd Kukowski Date Tested 5/20/97

| Clock Time | Elapsed Time Since Pumping Started/Pumped | Depth to water From TOC | Drawdown @ 30 gpm Recovery | Clock Time | Elapsed Time Since Pumping Started/Stopped | Depth to Water From TOC | Drawdown @ ___ gpm Recovery |
|---|---|---|---|---|---|---|---|
| | First 5 MIN. | | | | Recovery | | |
| | 1 ~~1~~ | 200' 4" | | | 1 | 200' 5" | |
| | 2 ~~2~~ | 200' 8" | | | 2 | 200' 4" | |
| | 3 ~~15~~ | 200' 8" | | | 3 | 200' 4" | |
| | 4 ~~20~~ | 200' 9" | | | 4 | Full Recovery | |
| | 5 ~~25~~ | 200' 9" | | | 5 | | |
| | 10 ~~30~~ | 200' 9" | | | | | |
| | 15 | 200' 10" | | | 10 | | |
| | 20 | 200' 10" | | | 15 | | |
| | 25 | 200' 11" | | | 20 | | |
| | 30 ~~35~~ | 200' 11" | | | 25 | | |
| | 40 ~~20~~ | 201' | | | 30 | | |
| | 50 ~~30~~ | 201' | | | 35 | | |
| | 60 ~~40~~ | 201' | | | 40 | | |
| | 70 50 | 201' | | | 45 | | |
| | 80 ~~60~~ | 201' | | | 50 | | |
| | 90 ~~70~~ | 201' | | | 55 | | |
| | 120 ~~80~~ | 201' | | | | | |
| | 150 ~~90~~ | 201' | | | | | |
| | 180 | 201' | | | | | |
| | 210 | 201' | | | | | |
| | ~~240~~ | 201' | | | | | |