



STATE OF ALASKA 36669
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started: 5 / 7 / 2013 Completed: 5 / 16 / 2013 Pump Install: / /

Table with 5 columns: City/Borough, Subdivision, Block, Lot, Property Owner Name & Address. Row 1: Bristol Bay Borough, Silver Bay Seafoods AK,

Well location: Latitude 58.7451363 Longitude -156.95546
Meridian S Township 016S Range 046W Section 33 SW 1/4 of NE 1/4 of NW 1/4 of SE 1/4

BOREHOLE DATA: (from ground surface)
Suggest T.M. Hanna's hydrogeologic classification system*
https://my.ngwa.org/NC Product?id=a18500000BYub3AAD
Depth From To
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: 258 ft Casing stickup: 3 ft
Casing type: Steel Casing thickness: 0.322 inches
Casing diameter: 8 inches Casing depth: 248 ft
Liner type: Depth: ft Diameter: inches
Note:
Well intake opening type: Open end, Open hole, Other screened
Screen type: Stainless Steel, Screen mesh size: 0.06
Screen start: 248 ft, Screen stop: 258 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): 60.4 ft on 10 / 2 / 2013 Artesian well
Pumping level & yield: 166 feet after 2 hours at 442 gpm
Method of testing:
Development method: Duration:
Recovery rate: gpm
Grout type: Bentonite Volume 9 Bags
Depth: From ft, To 20 ft

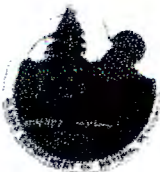
Include description or sketch of well location (include road names, buildings, etc.):

Final pump intake depth: 210 ft Model:
Pump size: 30 hp Brand name:
Was well disinfected upon completion? Yes No
Method of disinfection: Sodium Hypochlorite 50+ ppm
Was water quality tested? Yes No
Water quality parameters tested:
Well driller name:
Company name: Johnson Drilling Co.
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



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER

WATER WELL LOG

Drilling Started: 5 / 7 / 2013 Completed: 5 / 16 / 2013 Pump Install: 10 / 1 / 2013

| | | | | |
|--|--------------|----------------------------|---|--|
| City/Borough: | Subdivision: | Block | Lot | Property Owner Name & Address: |
| Naknek | | | | Silver Bay Seafoods Well #2 |
| Latitude 58° 44' 42.00"N | | Longitude 156° 57' 16.52"W | | |
| Meridian | | Township | Range | Section 1/4 of 1/4 of 1/4 of 1/4 |
| BOREHOLE DATA: (from ground surface) Suggest T.M. Hanna's hydrogeologic classification system * https://info.ngwa.org/servicecenter/shopper/ProductDetail.cfm?ProdCompanyPassed=ngw&ProdCdPassed=ngw-11030 | | | | Drilling method: <input checked="" type="checkbox"/> Air rotary, <input type="checkbox"/> Cable tool, <input type="checkbox"/> Other |
| Well use: <input checked="" type="checkbox"/> Public supply, <input type="checkbox"/> Domestic, <input type="checkbox"/> Reinjection, <input type="checkbox"/> Hydrofracking | | | | Fluids used: None |
| Depth From To | | | | <input type="checkbox"/> Other |
| Fine Brown Sand | 0 - | 25 | Depth of hole: 258 ft, Casing stickup: 3 ft | |
| Medium Brown Sand, Wet | 25 - | 30 | Casing type: Steel Wall thickness: .322 inches | |
| Medium Sand and Gravel, Wet | 30 - | 35 | Casing diameter: 8 inches Casing depth: 248 ft | |
| Silty Sand and Gravel | 35 - | 40 | Liner type: none Depth: ft Diameter: inches | |
| Clay and Sand Mixed | 40 - | 50 | Well intake opening type: <input type="checkbox"/> Open end, <input type="checkbox"/> Open hole, <input type="checkbox"/> Other | |
| Clayey Sand and Gravel | 50 - | 70 | Screen type: Stainless Steel Assembly From: 248 ft, To 258 ft | |
| Silty Sand and Gravel | 70 - | 110 | Slot size 60 From: 248 ft, To 258 ft | |
| Clay and Large Rocks | 110 - | 120 | Slot size From: ft, To ft | |
| Medium Gravel, Dry | 120 - | 130 | <input type="checkbox"/> Perforation description From: ft, To ft | |
| Sandy Clay and Gravel | 130 - | 140 | From: ft, To ft From: ft, To ft | |
| Coarse Sand and Gravel | 140 - | 160 | Gravel packed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From ft, To ft | |
| Very Coarse Sand and Gravel | 160 - | 180 | Static water (from top of casing): 60.4 ft on 10 / 2 / 2013 | |
| Clayey Sand | 180 - | 200 | Pumping level & yield: 186 feet after 2 hours at 442 gpm | |
| Clay and Pea Gravel | 200 - | 220 | Method of testing: Submersible Pump 30 HP | |
| Mixed Sand and Pea Gravel | 220 - | 230 | Development method: Air Surge Duration: 6 Hrs | |
| Coarse Sand and Gravel | 230 - | 258 | Recovery rate: 3 min gpm | |
| | | | Grout type: Standing Bentonite Column Volume 9 bags | |
| | | | Depth: From Surface ft, To 20 ft | |
| | | | Final pump intake depth: 210 ft Model: 7CLC 3 Stage Goulds | |
| | | | Pump size 30 hp Brand name Grundfos Motor | |
| | | | Was well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| | | | Method of disinfection: Sodium Hypochlorite 50+ PPM | |
| | | | Was water quality tested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| | | | Water quality parameters tested: PWA + Arsenic | |
| | | | Well driller name: Steve Thomas | |
| | | | Company name: Johnson Drilling Co. | |
| | | | Mailing address: 3705 Arctic #412 | |
| | | | City: Anchorage State: AK Zip 99503 | |
| | | | Phone number: (907) 250 5051 | |
| | | | Driller's signature: <i>Steve Thomas</i> | |
| | | | Date: 6 / 10 / 2013 | |

AS 41.08.020(b)(4) and AAC 11 AAC 93.140(a) require that a copy of the well log be forwarded to the Department of Natural Resources within 45 days of well completion. Please email well logs to:

dnr.water.reports@alaska.gov OR send to
Alaska DNR, MLW, Alaska Hydrologic Survey
550 West 7th Avenue, Suite 1020
Anchorage, AK 99501

Anchorage Municipal Code 15.55.060(l) requires that a copy of this well log be forwarded to the Development Services Department within 30 days of well completion.

City Permit Number: _____
Date of Issue: _____

Parcel Identification Number: _____

Is well located at approved permit location? Yes No

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