



STATE OF ALASKA 84445
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started: 11 / 20 / 2023 Completed: 12 / 20 / 2023 Pump Install: 12 / 21 / 2023

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Matanuska-Susitna Borough	BLACK SPRUCE EST	1	3	Zachary Erickson ,

Well location: Latitude 61.638190971123606

Longitude -149.55018997192383

Meridian S Township 018N Range 002W Section 24 SE 1/4 of NE 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=a18500000BYub3AAD

Depth

From To

topsoil	0	2
brown sandy silty gravels	2	16
gray sandy gravels	16	40
gray weathered sandstone	40	46
consolidated gray bedrock	46	62
coal	62	73
brown shale	73	80
gray sandstone bedrock	80	106
coal (wet)	106	115
brown shale (wet)	115	121
gray sandstone bedrock	121	149
coal	149	153
brown shale	153	160
gray sandstone bedrock	160	222
coal	222	229
brown shale	229	235
gray sandstone bedrock	235	302

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

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: 345 ft Casing stickup: 3 ft

Casing type: Steel Casing thickness: .25 inches

Casing diameter: 6 inches Casing depth: 41 ft

Liner type: PVC Depth: 345 ft Diameter: 4.5 inches

Note: _____

Well intake opening type: ☐ Open end, ☒ Open hole, ☐ Other open hole

Screen type: _____, Screen mesh size: _____

Screen start: _____ ft, Screen stop: _____ 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): 74 ft on 12 / 20 / 2023 Artesian well ☐

Pumping level & yield: _____ feet after _____ hours at _____ gpm

Method of testing: _____

Development method: _____ Duration: _____

Recovery rate: _____ gpm

Grout type: granular bentonite Volume 3.4ft3

Depth: From 0 ft, To 10 ft

Final pump intake depth: _____ ft Model: _____

Pump size: _____ hp Brand name: _____

Was well disinfected upon completion? ☒ Yes ☐ No

Method of disinfection: chlorine pellets

Was water quality tested? ☒ Yes ☐ No

Water quality parameters tested: per ANTHC requirements

Well driller name: _____

Company name: PIONEER PEAK INDUSTRIES D/B/A VALLEY WELL DRILLING

Mailing address: _____

City: _____ State: AK Zip: _____

Phone number: () -

Driller's signature: _____

Date: / /

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: - -

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



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WATER WELL LOG

Drilling Started: ____/____/____ Completed: ____/____/____ Pump Install: ____/____/____

City/Borough:	Subdivision:	Block	Lot	Property Owner Name & Address:

Latitude _____ Longitude _____
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-t1030>

Depth
From To

Drilling method: ☐ Air rotary, ☐ Cable tool, ☐ Other _____
Well use: ☐ Public supply, ☐ Domestic, ☐ Reinjection, ☐ Hydrofracking
Fluids used: _____
☐ Other _____

Depth of hole: _____ ft, Casing stickup: _____ ft
Casing type: _____ Wall thickness _____ inches
Casing diameter: _____ inches Casing depth _____ ft
Liner type: _____ Depth: _____ ft Diameter: _____ inches

Well intake opening type: ☐ Open end, ☐ Open hole, ☐ Other
Screen type: _____, Assembly From: _____ ft, To _____ ft
Slot size _____ From: _____ ft, To _____ ft
Slot size _____ From: _____ ft, To _____ ft

☐ Perforation description _____ From: _____ ft, To _____ ft
From: _____ ft, To _____ ft From: _____ ft, To _____ ft
Gravel packed ☐ Yes ☐ No From _____ ft, To _____ ft

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

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

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

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

Well driller name: _____
Company name: _____
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 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