



STATE OF ALASKA 77438
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started: 8 / 20 / 2019 Completed: 8 / 21 / 2019 Pump Install: 9 / 6 / 2019

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address																																																											
Municipality of Anchorage	SEAVIEW HEIGHTS	2	6 (LT 13)	Dan Shantz AK,																																																											
Well location: Latitude 61.14254 Longitude -150.000336 Meridian S Township 012N Range 004W Section 09 NE 1/4 of SW 1/4 of NE 1/4 of SW 1/4																																																															
BOREHOLE DATA: (from ground surface) Suggest T.M. Hanna's hydrogeologic classification system* https://my.ngwa.org/NC_Product?id=a185000000BYub3AAD																																																															
<table border="1"><thead><tr><th rowspan="2"></th><th colspan="2">Depth</th></tr><tr><th>From</th><th>To</th></tr></thead><tbody><tr><td>Overburden</td><td>0</td><td>3</td></tr><tr><td>Sandy gravel</td><td>3</td><td>49</td></tr><tr><td>Silt and sand</td><td>49</td><td>55</td></tr><tr><td>Sandy gravel</td><td>55</td><td>89</td></tr><tr><td>Sand, small</td><td>89</td><td>129</td></tr><tr><td>Sand with gravel</td><td>129</td><td>151</td></tr><tr><td>Damp sand and gravel</td><td>151</td><td>161</td></tr><tr><td>Sand with gravel</td><td>161</td><td>183</td></tr><tr><td>Silty sand, damp</td><td>183</td><td>188</td></tr><tr><td>Wet clay</td><td>188</td><td>213</td></tr><tr><td>Wet sandy gravel</td><td>213</td><td>227</td></tr><tr><td>Water in gravel</td><td>227</td><td>237</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>						Depth		From	To	Overburden	0	3	Sandy gravel	3	49	Silt and sand	49	55	Sandy gravel	55	89	Sand, small	89	129	Sand with gravel	129	151	Damp sand and gravel	151	161	Sand with gravel	161	183	Silty sand, damp	183	188	Wet clay	188	213	Wet sandy gravel	213	227	Water in gravel	227	237																		
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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: 237 ft Casing stickup: 3 ft Casing type: A53B Steel Casing thickness: .25 inches Casing diameter: 6 inches Casing depth: 237 ft Liner type: _____ Depth: _____ ft Diameter: _____ inches Note: _____ Well intake opening type: ☒ Open end, ☐ Open hole, ☐ Other open end 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): 149 ft on ____ / ____ / ____ Artesian well ☐ Pumping level & yield: 240 feet after 1 hours at 10 gpm Method of testing: Air Development method: _____ Duration: _____ Recovery rate: 10 gpm Grout type: Casing seal Volume 100lbs Depth: From 0 ft, To 50 ft Final pump intake depth: 211 ft Model: 10SQE 07-240 Pump size: .75 hp Brand name: Grundfos Was well disinfected upon completion? ☒ Yes ☐ No Method of disinfection: Chlorine tablets Was water quality tested? ☐ Yes ☒ No Water quality parameters tested: _____ Well driller name: _____ Company name: DENALI 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: _____ - _____ - _____																																																															
Include description or sketch of well location (include road names, buildings, etc.):																																																															

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

North ↑



Denali Drilling

Drilling Started: 8 / 20 / 19 Completed: 8 / 21 / 19 Pump Install: 9 / 6 / 19

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Anchorage	Seaview Hgts	Plat P12C	13	Dan Shantz

Well location: 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://my.nawa.org/NC_Product?id=a18500000BYub3AAD

	From	To
Casing stick up	0	3
Overburden	3	6
Sandy gravel	6	52
Silt and sand	52	58
Sandy gravel	58	92
Sand, small	92	132
Sand with gravel	132	154
Damp sand and gravel	154	164
Sand with gravel	164	186
Silty sand, damp	186	191
Wet clay	191	216
Wet sandy gravel	216	230
Water in gravel	230	240

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: 240 ft Casing stickup: 3 ft

Casing type: A53 Grade B Casing thickness: .250 inches

Casing diameter: 6 inches Casing depth: 240 ft

Liner type: _____ Depth: _____ ft Diameter: _____ inches

Note: _____

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

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): 149 ft on / / Artesian well ☐

Pumping level & yield: 240 feet after 1 hours at 10 gpm

Method of testing: Air

Development method: _____

Recovery rate: 10 gpm

Grout type: Casing seal Volume 100 lbs.

Depth: From 0 ft, To 50 ft

Final pump intake depth: 211 ft Model: 10SQE 07-240

Pump size: .75 hp Brand name: Grundfos

Was well disinfected upon completion? ☒ Yes ☐ No

Method of disinfection: Chlorine Tabs

Was water quality tested? ☐ Yes ☒ No

Water quality parameters tested: _____

Well driller name: Wade Westberg

Pump installer: Redmond

Company name: Denali Drilling, Inc.

Helly Drilling, Inc.

Mailing address: 8240 Petersburg Street

P. O. Box 112130, Anchorage, AK 99511

City: Anchorage

State: AK Zip: 99507

Phone number: (907) 562 - 2312

Driller's signature: _____

Date: 8 / 28 / 2019

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: OSP 191007

Date of issue: 1 / 10 / 2019

Parcel Identification Number: _____

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

WATER QUALITY TESTING

Colliform Neg Col/100mL
 Nitrates ND mg/L
 Arsenic ND ug/L

10/17/19

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 available at:

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

or email electronic well logs to

water.reports@alaska.gov

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

DESIGN PARAMETERS

PRIMARY SEPTIC SYSTEM
 NO. BEDROOM: 3(450 gpd)
 TANK SIZE: 1000g
 PERC RATE: <1 MPI
 SOIL RATING: 1.0 GPD/SF
 AREA RQD: 450 SF
 SYS. TYPE: DEEP TRENCH 8.0' ED
 MIN LENGTH: 28.5 LF
 USED:
 30.0LF x 2.5'W x 8.0' E.D., 12.0' TD
 TOTAL AREA: 480 SF

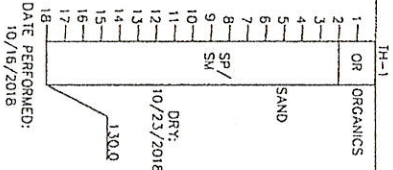
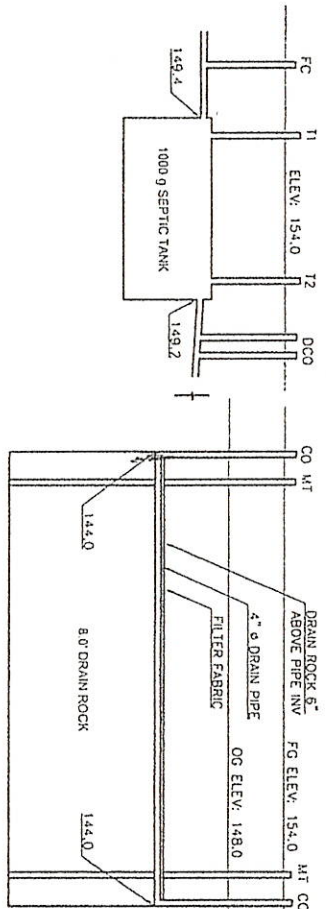
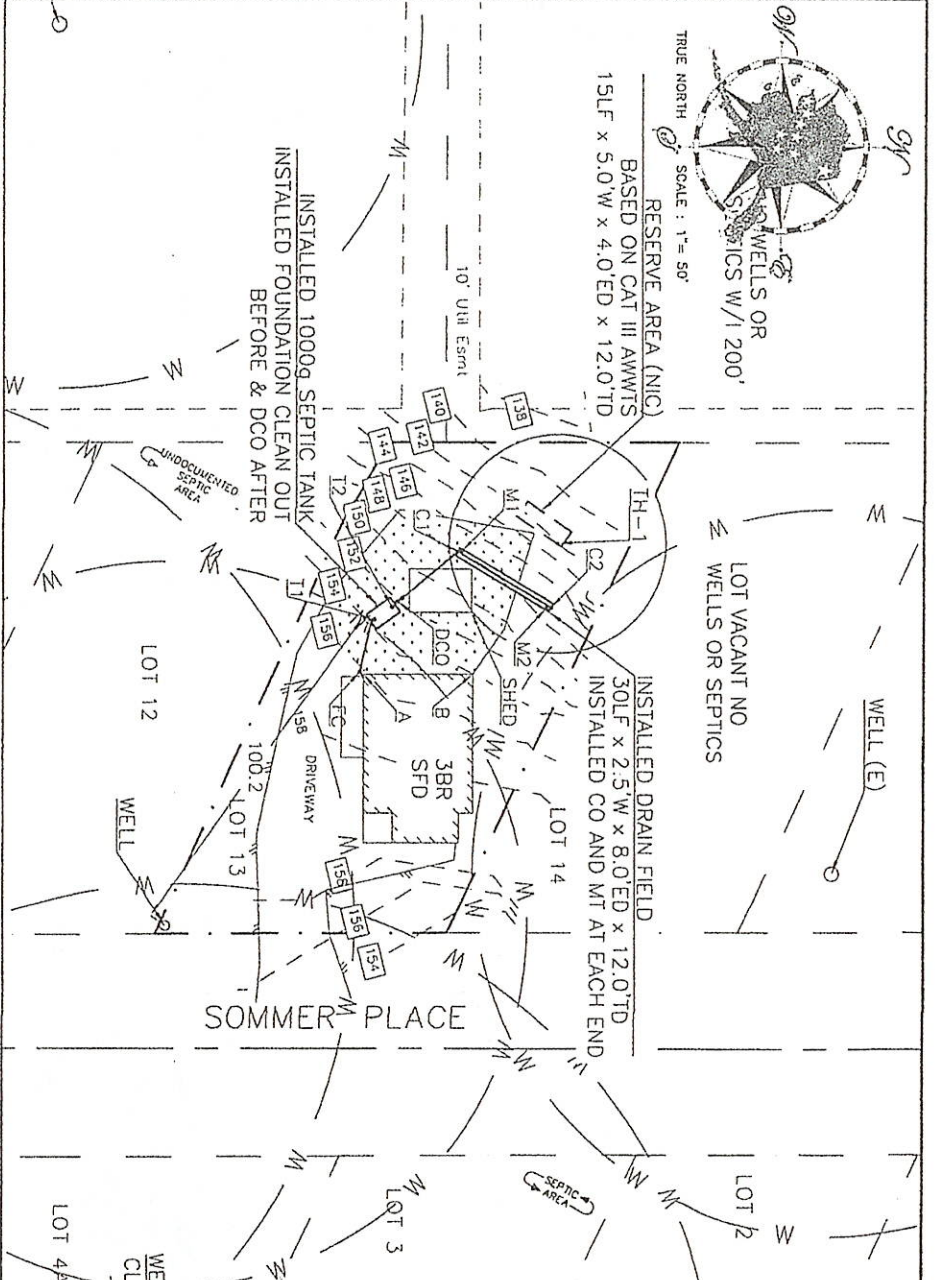
	A	B
T1	15.2	31.0
T2	19.9	28.8
DCO	21.9	28.7
C1	42.4	33.7
M1	43.3	33.9
C2	54.8	28.1
M2	53.5	27.1

*SWING TIES ARE ±1.0'

W ——— W WATER LINE /
 WELL RADIUS
 NEW SEPTIC

ABBREVIATIONS

TH TEST HOLE
 (P) PROPOSED
 (E) EXISTING
 CO CLEAN OUT NO.
 DCO DOUBLE CLEAN OUT
 FC FOUNDATION CLEANOUT
 FS FLOW SPLITTER
 MT MONITOR TUBE NO.
 TYP TYPICAL



PROFILE
 SCALE: N.T.S.

NOTES:		PANNONE ENG SVC, LLC (C.I. 1088) P.O. BOX 1807 PALMER, AK 99645 PHONE (907) 745-8200 FAX (907) 745-8201 SEAVIEW HEIGHTS B2 L6(L13) DANIEL SHANTZ SITE: 8680 SOMMERS PLACE ANCHORAGE, AK		REVISIONS REV 1: 5/13/2020	DATE 5/4/2020
RECORD DRAWING				SCALE 1" = 50'	P.I.D. NO. 011-261-14
DRAWN ACP	SITE PLAN			PERMIT NO. OSP191007	SHEET 2 OF 2