



55995

**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: 6 / 28 / 2017 Pump Install: \_\_\_/\_\_\_/\_\_\_

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Municipality of Anchorage	Yagheli Tinitun		<b>1</b>	Eklutna Construction And Maintenance AK,

**Well location: Latitude** 61.447835 **Longitude** -149.305266  
 Meridian S Township 016N Range 001E Section 29, NE 1/4 of NW 1/4 of NE 1/4 of SE 1/4

<p><b>BOREHOLE DATA:</b> (from ground surface)          Suggest T.M. Hanna's hydrogeologic classification system*  <a href="https://my.ngwa.org/NC_Product?id=a18500000BYub3AAD">https://my.ngwa.org/NC_Product?id=a18500000BYub3AAD</a></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="2" style="text-align: center;">Depth</th> </tr> <tr> <th style="text-align: center;">From</th> <th style="text-align: center;">To</th> </tr> </thead> <tbody> <tr><td>Overburden</td><td style="text-align: center;">0</td><td style="text-align: center;">2</td></tr> <tr><td>Silty sand and gravel</td><td style="text-align: center;">2</td><td style="text-align: center;">11</td></tr> <tr><td>Silty sand and gravel with clay</td><td style="text-align: center;">11</td><td style="text-align: center;">28</td></tr> <tr><td>Silty sand and gravel with clay and water</td><td style="text-align: center;">28</td><td style="text-align: center;">37</td></tr> <tr><td>Clay gravel</td><td style="text-align: center;">37</td><td style="text-align: center;">72</td></tr> <tr><td>Hardpan</td><td style="text-align: center;">72</td><td style="text-align: center;">95</td></tr> <tr><td>Bedrock gray</td><td style="text-align: center;">95</td><td style="text-align: center;">238</td></tr> <tr><td>Bedrock Hard</td><td style="text-align: center;">238</td><td style="text-align: center;">247</td></tr> <tr><td>Bedrock gray with quartz</td><td style="text-align: center;">247</td><td style="text-align: center;">298</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> <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	2	Silty sand and gravel	2	11	Silty sand and gravel with clay	11	28	Silty sand and gravel with clay and water	28	37	Clay gravel	37	72	Hardpan	72	95	Bedrock gray	95	238	Bedrock Hard	238	247	Bedrock gray with quartz	247	298																															<p><b>Drilling method:</b> <input checked="" type="checkbox"/> Air rotary, <input type="checkbox"/> Cable tool, <input type="checkbox"/> Other _____  <b>Well use:</b> <input checked="" type="checkbox"/> Public supply, <input type="checkbox"/> Domestic, <input type="checkbox"/> Reinjection, <input type="checkbox"/> Hydrofracking  <input type="checkbox"/> Commercial, <input type="checkbox"/> Observation/Monitoring, <input type="checkbox"/> Test/Exploratory, <input type="checkbox"/> Cooling,  <input type="checkbox"/> Irrigation/Agriculture, <input type="checkbox"/> Grounding, <input type="checkbox"/> Recharge/Aquifer Storage,  <input type="checkbox"/> Heating, <input type="checkbox"/> Geothermal Exploration, <input type="checkbox"/> Other _____  <b>Fluids used:</b> _____  <b>Depth of hole:</b> <u>298</u> ft <b>Casing stickup:</b> <u>2</u> ft  <b>Casing type:</b> <u>Steel</u> <b>Casing thickness:</b> <u>0.25</u> inches  <b>Casing diameter:</b> <u>4</u> inches <b>Casing depth:</b> <u>102</u> ft  <b>Liner type:</b> _____ <b>Depth:</b> _____ ft <b>Diameter:</b> _____ inches  <b>Note:</b> _____  <b>Well intake opening type:</b> <input checked="" type="checkbox"/> Open end, <input type="checkbox"/> Open hole, <input type="checkbox"/> Other <u>open end</u>  <b>Screen type:</b> _____, <b>Screen mesh size:</b> _____  <b>Screen start:</b> _____ ft, <b>Screen stop:</b> _____ ft, <b>Perforated</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <b>Perforation description:</b> _____ <b>Perf from:</b> <u>30</u> ft, <b>Perf to:</b> <u>37</u> ft, <b>Perf from:</b> _____ ft, <b>Perf to:</b> _____ ft  <b>Gravel packed</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Gravel start:</b> _____ ft, <b>Gravel stop:</b> _____ ft  <b>Note:</b> _____  <b>Static water (from top of casing):</b> <u>10</u> ft on <u>7 / 8 / 2017</u> <b>Artesian well</b> <input type="checkbox"/>  <b>Pumping level &amp; yield:</b> _____ feet after _____ hours at _____ gpm  <b>Method of testing:</b> <u>air</u>  <b>Development method:</b> _____ <b>Duration:</b> _____  <b>Recovery rate:</b> <u>3.4</u> gpm  <b>Grout type:</b> <u>Bentonite</u> <b>Volume</b> <u>50lbs</u>  <b>Depth: From</b> _____ ft, <b>To</b> _____ ft  <b>Final pump intake depth:</b> _____ ft <b>Model:</b> _____  <b>Pump size:</b> _____ hp <b>Brand name:</b> _____  <b>Was well disinfected upon completion?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <b>Method of disinfection:</b> <u>Chlorine 50PPM</u>  <b>Was water quality tested?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  <b>Water quality parameters tested:</b> _____  <b>Well driller name:</b> <u>Cole Sullivan</u>  <b>Company name:</b> <u>SULLIVAN WATER WELLS</u>  <b>Mailing address:</b> <u>P.O. BOX 670269</u>  <b>City:</b> <u>CHUGIAK</u> <b>State:</b> <u>AK</u> <b>Zip:</b> <u>99567</u>  <b>Phone number:</b> <u>(07) _____</u> 688 - 2759  <b>Driller's signature:</b> _____  <b>Date:</b> _____/_____/_____  <b>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.</b>  <b>City Permit Number:</b> _____  <b>Date of Issue:</b> _____/_____/_____  <b>Parcel Identification Number:</b> _____ - _____ - _____</p>
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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](mailto:dnr.water.reports@alaska.gov)

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





Date: 7-7-17 to 7-8-17

P.O. Box 670269 Chugiak, AK 99567  
 P: (907) 688-2759 F: (907) 688-2259

Eklutna Construction & Maintenance  
 CITC- Ernie Turner Center

Yagheli Tinitun Lot 1

### Flow Test Report

Time:	Static:	Meter:	GPM:
2:20 PM	10	1713	5
2:25	18	1734	4
2:30	18.6	1752	4.5
2:35	18.9	1770	4.5
2:40	19.4	1788	4
3:00	20.8	1865	3.8
3:33	21.4	1990	3.5
4:00	21.4	2090	3.5
4:30	21.4	2197	3.5
5:00	21.4	2303	3.5
6:00	21.4	2507	3.4
7:00	21.4	2711	3.4
8:00	21.4	2916	3.4
9:00	21.4	3119	3.4
10:00	21.4	3328	3.4
11:00	21.4	3527	3.4
12:00	21.4	3731	3.4
1:00	21.4	3934	3.4
2:00 AM	21.4	4140	3.4
3:00	21.4	4343	3.4
4:00	21.4	4547	3.4
5:00	21.4	4751	3.4
6:00	21.4	4956	3.4
7:00	21.4	5159	3.4
8:00	21.4	5380	3.4
9:00	21.4	5584	3.4
10:00	21.4	5788	3.4
11:00	21.4	5992	3.4
12:00	21.4	6197	3.4
1:00	21.4	6400	3.4
2:00	21.4	6604	3.4
2:20 PM	21.4	6664	3.4

Sediment from perforations sanded up the pump during first test. New pump was set above perforations in order to continue test successfully.

Resting Static: 10'

Average GPM: 3.438