

Wheaton Water Well, Inc.

38870

1190 N. Wasilla-Fishhook Road

Wasilla, AK 99654

(907)376-2041

Name: Matanuska-Susitna Borough

Address: 350 East Dahlia Avenue

City: Palmer

State: AK **Zip Code:** 99645

Well Site: T16N, R2W, S6

Lot: D3 **Block:**

Additional: Dena'ina Elementary School

Well Depth:	141 ft.	From:	To:	Formation:
Below Ground:	139 ft.	0	4	topsoil, gravel
Above Ground:	2 ft.	4	58	silt, gravel
Gal/Min:	250 +	58	69	wet silty gravel
Static Level:	114 ft.	69	86	silt, gravel
Casing:	131' of 8" ID Steel	86	121	damp silt, gravel
Liner Pipe:	none	121	131	sand, gravel, silt
Screened:	see side	131	141	sand, gravel, water
Perforated:	none			
Grouted:	see side	131	136	60 slot screen
Depth:	20' +	136	141	40 slot screen
Develop. Method:	Air			grouted 20' plus with a 10" surface seal using 9 bags of bentonite
Use of Well:	Commercial			
Drilling Method:	Rotary			
Fluids Used:	none			
Pump Installed:	none			
Other:	none			

Date Drilled: 10-23-2014 **Driller:** Ben Mattson



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

38870

WATER WELL LOG

Drilling Started: 10/17/2014 Completed: 10/23/2014 Pump Install: None

City/Borough: <u>Mat-Su</u>	Subdivision: <u>T16N, R2W</u>	Block: <u></u>	Lot: <u>D3</u>	Property Owner Name & Address: <u>Mat-Su Borough</u> <u>350 E Dahlia Avenue</u> <u>Palmer, AK 99645</u>
Latitude: <u>Seward</u>		Longitude: <u></u>		
Meridian: <u>Seward</u>		Township: <u>16N</u> Range: <u>2W</u> Section: <u>10</u> 1/4 of <u></u> 1/4 of <u></u> 1/4 of <u></u> 1/4 of <u></u>		
BOREHOLE DATA: (from ground surface) Suggest T.M. Hanna's hydrogeologic classification system * https://info.ngwa.org/servicecenter/shopper/ProductDetail.cfm?ProdCompanyPassed=nqw&ProdCdPassed=nqw-t1030				
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: <u>none</u>		<input type="checkbox"/> Other		
Depth From To		Depth of hole: <u>141</u> ft Casing stickup: <u>2</u> ft		
<u>Topsoil, gravel</u> 0 4		Casing type: <u>Steel</u> Wall thickness: <u>.25</u> inches		
<u>silt, gravel</u> 4 58		Casing diameter: <u>8</u> inches Casing depth: <u>131</u> ft		
<u>wet silty gravel</u> 58 69		Liner type: <u>none</u> Depth: <u></u> ft Diameter: <u></u> inches		
<u>silt, gravel</u> 69 86		Well intake opening type: <input type="checkbox"/> Open end, <input type="checkbox"/> Open hole, <input checked="" type="checkbox"/> Other		
<u>damp silt gravel</u> 86 121		Screen type: <u>Stainless</u> Assembly From: <u>131</u> ft To: <u>141</u> ft		
<u>sand, gravel, silt</u> 121 131		Slot size <u>60</u> From: <u>131</u> ft To: <u>136</u> ft		
<u>sand, gravel, water</u> 131 141		Slot size <u>40</u> From: <u>136</u> ft To: <u>141</u> ft		
		<input type="checkbox"/> Perforation description <u>N/A</u> From: <u></u> ft To: <u></u> ft		
		From: <u></u> ft To: <u></u> ft From: <u></u> ft To: <u></u> ft		
		Gravel packed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No From <u></u> ft To <u></u> ft		
		Static water (from top of casing): <u>114</u> ft on <u>10/23/2014</u>		
		Pumping level & yield: <u>115</u> feet after <u>24</u> hours at <u>125</u> gpm		
		Method of testing: <u>flow meter</u>		
		Development method: <u>Air</u> Duration: <u>10 hours</u>		
		Recovery rate: <u>2300</u> gpm		
		Grout type: <u>Bentonite</u> Volume <u>4 bags</u>		
		Depth: From <u>0</u> ft To <u>20+</u> ft		
		Final pump intake depth: <u>N/A</u> ft Model: <u></u>		
		Pump size <u></u> hp Brand name <u></u>		
<u>recommend pump</u>		Was well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<u>be set at 128'</u>		Method of disinfection: <u>chlorine recirculation</u>		
		Was water quality tested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Water quality parameters tested: <u></u>		
		Well driller name: <u>Ben Mattson</u>		
		Company name: <u>Wheaton Water Well, Inc</u>		
		Mailing address: <u>1190 N. Wasilla-Fishhook Road</u>		
		City: <u>Wasilla</u> State: <u>AK</u> Zip: <u>99654</u>		
		Phone number: <u>(907) 376-2041</u>		
		Driller's signature: <u>Ben Mattson</u>		
		Date: <u>10/23/2014</u>		

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(I) 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

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Wheaton Water Well, Inc.

907-376-2041 - Fax: 907-376-2030 - email: cp650wheaton@gmail.com

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Dena'ina Elementary School

Sieve Analysis Report

132' - 60% sand is plus 0.060 inch

140' - 60% sand is plus 0.060 inch

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Wheaton Water Well Inc.

Plumbness & Alignment Report

Dena'ina 8" Test Well

For testing we lowered a 7.5" X 11' length of pipe to a depth of 131' encountering no obstructions or binding. Also the 6" X 7' test pump on 3" galvanized pipe was lowered to 133' without encountering any obstructions or binding.

A handwritten signature in blue ink, appearing to read 'B. Wille', is written over a faint horizontal line.

Brian R. Wille

President

Wheaton Water Well Inc.

10/29/2014

Wheaton Water Well, Inc.

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Wasilla, AK 99654
(907)376-2041

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WELL FLOW TEST

Project: Dena'ina Elementary School
Well Site: T16N, R2W, S6 Lot D3
Well Depth: 141'
Static Water Level: 114 ft.
Date Drilled: 10-23-2014

Date of Test: 10-28-2014
Casing: 131' of 8" ID Steel
Screen: 5' of 40 slot & 5' of 60 slot
Date Level Taken: 10-23-2014
Drilled By: Wheaton Water Wells

Elapsed Time In Minutes	Depth To Water	Gallons Per Minute	Remarks
0	113.57'	0	9:21 am
0	113.54'	0	10:28 am
0	113.57'	0	10:45 am Start Pumping
1	114.28'	70	
2	114.26'		
14	114.26'	70	
15	114.70'		open valve
21	114.71'	110	
31	114.71'	110	
33	114.92'	125	open valve fully
38	114.92'	125	45 minutes - sand is 3.48 ppm
114	114.87'	125	sand is 3.48 ppm
315	114.80'	125	sand is 3.48 ppm
380	114.80'	125	
442	114.80'	125	
511	114.80'	125	
575	114.80'	125	
638	114.80'	125	
702	114.80'	125	
768	114.80'	125	
830	114.80'	125	
890	114.80'	125	
955	114.80'	125	
1018	114.80'	125	
1083	114.80'	125	
1150	114.80'	125	
1210	114.80'	125	
1263	114.80'	125	
1304	114.80'	125	sand is 3.4 ppm
1469	115.02'	125	sand is 1.0 ppm
1473	115.02'	125	Stopped Pumping

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Draw Down/Recovery		
<hr/>		
0	115.02'	Stopped Pumping
1	113.91'	
2	113.90'	
3	113.90'	
35	113.90'	

70% of drawdown recovery
is 113.99'

The water discharge point is 210' Southwest of well. Water dissipated into the ground.