



STATE OF ALASKA 33793
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started: ____/____/____ Completed: 6 / 1 / 2010 Pump Install: ____/____/____

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Matanuska-Susitna Borough	GROUSE RIDGE ESTATES	B7	L02	N LOZIER ,

Well location: Latitude _____ Longitude _____
Meridian S _____ Township 018N Range 001W Section 09 _____, SW 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.ngwa.org/NC_Product?id=a185000000BYub3AAD

	Depth	
	From	To
TOP SOIL	0	1
SAND GRAVEL COBBLES	1	71
GRANITE BOULDER	71	73
SAND GRAVEL ROCK	73	101
SAND GRAVEL SEEPAGE	101	102
SAND GRAVEL	102	105
GRAY CLAY	105	110
SAND GRAVEL ROCK	110	134
SHALE	134	170
SANDSTONE	170	225

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: 225 _____ ft Casing stickup: _____ ft

Casing type: _____ Casing thickness: _____ inches

Casing diameter: _____ inches Casing depth: 136 _____ ft

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

Note: CASE TO 136 FT

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): 86 _____ ft on ____/____/____ Artesian well ☐

Pumping level & yield: _____ feet after _____ hours at 6 _____ 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: HOOD & SON'S PUMP AND 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

33793

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

Drilling Started: 5/25/10 Completed: 6/1/10

City/Borough: <u>MAT. 52C</u>	Subdivision: <u>CROUSE</u> <u>RIDGE</u>	BLOCK <u>7</u>	LOT <u>2</u>	Property Owner Name & Address: <u>NICOLE LOZIER</u> <u>1830 E PARKS Hwy STE</u> <u>A-113 PMB 433</u> <u>WASILLA, AK 99687</u>
Meridian _____	Township _____	Range _____	Section _____	1/4 of _____ 1/4 of _____ 1/4 of _____ 1/4
BOREHOLE DATA: (from ground surface) Depth Material: Type, Color & wetness From To				Drilling method: ☒ Air rotary, ☐ Cable tool ☐ Other _____ Well use: ☐ Public supply, ☒ Domestic, ☐ Other _____
TOP SOIL 0 1				Depth of hole: <u>225</u> ft, Casing stickup: <u>3</u> ft
SAND & GRAVEL & COBBLES 1 71				Casing type: <u>A53B</u> Thickness <u>1/4</u> inches
GRANITE BOULDER - 71 73 1/2				Casing diameter: <u>6</u> inches Casing depth <u>136</u> ft
SAND & GRAVEL & ROCK 73 1/2 101				Liner type: <u>N/A</u> Diameter: _____ inches Depth: _____ ft
SAND & GRAVEL & SEEPAGE 101 102				Note: _____
SAND & GRAVEL + 2-3 gpm 102 105				Static water (from top of casing): <u>86</u> ft on <u>6/2/10</u>
GRAY CLAY 105 110				Pumping level & yield: <u>10</u> feet after <u>22</u> hours at <u>6</u> gpm
SAND & GRAVEL & ROCK 110 134				Recovery rate: <u>6</u> gpm, Method of testing: <u>AIR & PUMP</u>
SHALE 134 170				Development method: <u>A.R.</u> Duration: <u>4 hrs.</u>
SANDSTONE 170 225				Well intake opening type: ☐ Open end ☒ Open hole, Other ☐
				☐ Screened; Start: _____ ft. Stopped _____ ft.
				Screen type: _____ Slot/mesh size _____
				☒ Perforated; Start: <u>97</u> ft. Stopped <u>106</u> ft.
				Start: _____ ft. Stopped _____ ft.
				Gravel packed ☐ Yes ☒ No From _____ ft to _____ ft.
				Note: <u>PERFORATED 9 SHOTS @ 3/4" HOLES X 1' AMT</u>
				Grout type: <u>N/A</u> Volume _____
				Depth; from _____ ft. to _____ ft.
				Pump intake depth: <u>240</u> ft
				Pump size <u>3/4</u> hp Brand name <u>Goulds/Franklin</u>
				Was well disinfected upon completion? ☐ Yes ☒ No
				Method of disinfection: _____
NOTE INSTALLED PUMP + PUMPED FOR 2 hrs. @ 6 gpm well was cleaning up ok TOLD OWNER TO PUMP ALL NIGHT TO CLEAN UP MORE. WELL HAS A SMALL AMOUNT OF SAND IN A 5 GAL BUCKET, LESS THAN 10 GRAINS I THINK THE WELL WILL BE OK @ THIS TIME				Driller comments/disclaimers: <u>OWNER DONT WANT THE LINDER INSTALLED @ THIS TIME. WELL PUMPED + FLUSHED FOR 4 1/2 hrs. SEE NOTE</u>
				Well driller name: <u>BILL HOOD / DAVE HOOD</u>
				Company name: <u>HOOD & SONS PUMP & DRILLING CO</u>
				Mailing address: <u>P.O. BOX 875195</u>
				City: <u>WASILLA</u> State: <u>AK</u> Zip <u>99687</u>
				Phone number: <u>(907) 892-9070</u>
				Drillers signature: <u>Bill Hood</u>
				Date: <u>6/1/10</u>

Alaska state law requires that a copy of this well log be forwarded to the Department of Natural Resources within 45 days (AK statutes 38.05.020, 38.05.035, 41.08.020, 46.15.020 and AK regulations 11 AAC 93.140). Faxes are acceptable.

Alaska DNR, Division of Mining, Land and Water,
 550 W 7th Avenue, Suite 1020
 Anchorage, AK 99501-3562

Phone (907)269-8639 and fax (907)269-8947

If the well is within city limits, the City of Anchorage requires that a copy of this well log be forwarded to the city within 60 days and another copy of this log be forwarded to the owner of the property, on which the well is located, within 30 days.

City Permit Number: _____

Date of Issue: _____

Parcel Identification Number: _____

Is well located at approved permit location? Yes ☐ or No ☐

DENALI NORTH

847 W. Evergreen Ave.
Palmer, AK 99645

LOCATION: 1000 1/2 Ave. 21st #3
DATE OF TEST: 2-2-74
TYPE OF DWELLING: 1000 1/2 BEDROOMS: 3

JOB NUMBER: 14120
INSPECTOR:

WELL STATIC: Inable to Probe
DRILLER: ~~WILLIAM W. BELL~~

PEAK LOAD: 24,222 - 4,994
SEPTIC TANK: 7,000
TYPE OF SAS: 5,127,000 - 13,127,000

WELL DEPTH: _____
WELL COMPLETION DATE: _____

ADEQUACY & WELL FLOW TEST REPORT

Time	Elapsed Minutes	Flow Rate (GPM)	Vol. (Gal)	Cumul. Vol (Gal)	Well Static	Λ S.T.	Septic Tank Liquid Level	Λ M.T.#1	Liquid Level	Λ M.T.#2	Liquid Level
7:00	0	50	0	0		43		0			
7:05	5	50	25	25		43		0			
7:10	10	50	50	50		43		0			
7:15	15	50	75	75		43		0			
7:20	20	50	100	100		43		0			
7:25	25	50	125	125		43		0			
7:30	30	50	150	150		43		0			
7:35	35	50	175	175		43		0			
7:40	40	50	200	200		43		0			
7:45	45	50	225	225		43		0			
7:50	50	50	250	250		43		0			
7:55	55	50	275	275		43		0			
8:00	60	50	300	300		43		0			
8:05	65	50	325	325		43		0			
8:10	70	50	350	350		43		0			
8:15	75	50	375	375		43		0			
8:20	80	50	400	400		43		0			
8:25	85	50	425	425		43		0			
8:30	90	50	450	450		43		0			
8:35	95	50	475	475		43		0			
8:40	100	50	500	500		43		0			
8:45	105	50	525	525		43		0			
8:50	110	50	550	550		43		0			
8:55	115	50	575	575		43		0			
9:00	120	50	600	600		43		0			
9:05	125	50	625	625		43		0			
9:10	130	50	650	650		43		0			
9:15	135	50	675	675		43		0			
9:20	140	50	700	700		43		0			
9:25	145	50	725	725		43		0			
9:30	150	50	750	750		43		0			
9:35	155	50	775	775		43		0			
9:40	160	50	800	800		43		0			
9:45	165	50	825	825		43		0			
9:50	170	50	850	850		43		0			
9:55	175	50	875	875		43		0			
10:00	180	50	900	900		43		0			
10:05	185	50	925	925		43		0			
10:10	190	50	950	950		43		0			
10:15	195	50	975	975		43		0			
10:20	200	50	1000	1000		43		0			
10:25	205	50	1025	1025		43		0			
10:30	210	50	1050	1050		43		0			
10:35	215	50	1075	1075		43		0			
10:40	220	50	1100	1100		43		0			
10:45	225	50	1125	1125		43		0			
10:50	230	50	1150	1150		43		0			
10:55	235	50	1175	1175		43		0			
11:00	240	50	1200	1200		43		0			
11:05	245	50	1225	1225		43		0			
11:10	250	50	1250	1250		43		0			
11:15	255	50	1275	1275		43		0			
11:20	260	50	1300	1300		43		0			
11:25	265	50	1325	1325		43		0			
11:30	270	50	1350	1350		43		0			
11:35	275	50	1375	1375		43		0			
11:40	280	50	1400	1400		43		0			
11:45	285	50	1425	1425		43		0			
11:50	290	50	1450	1450		43		0			
11:55	295	50	1475	1475		43		0			
12:00	300	50	1500	1500		43		0			
12:05	305	50	1525	1525		43		0			
12:10	310	50	1550	1550		43		0			
12:15	315	50	1575	1575		43		0			
12:20	320	50	1600	1600		43		0			
12:25	325	50	1625	1625		43		0			
12:30	330	50	1650	1650		43		0			
12:35	335	50	1675	1675		43		0			
12:40	340	50	1700	1700		43		0			
12:45	345	50	1725	1725		43		0			
12:50	350	50	1750	1750		43		0			
12:55	355	50	1775	1775		43		0			
13:00	360	50	1800	1800		43		0			
13:05	365	50	1825	1825		43		0			
13:10	370	50	1850	1850		43		0			
13:15	375	50	1875	1875		43		0			
13:20	380	50	1900	1900		43		0			
13:25	385	50	1925	1925		43		0			
13:30	390	50	1950	1950		43		0			
13:35	395	50	1975	1975		43		0			
13:40	400	50	2000	2000		43		0			
13:45	405	50	2025	2025		43		0			
13:50	410	50	2050	2050		43		0			
13:55	415	50	2075	2075		43		0			
14:00	420	50	2100	2100		43		0			
14:05	425	50	2125	2125		43		0			
14:10	430	50	2150	2150		43		0			
14:15	435	50	2175	2175		43		0			
14:20	440	50	2200	2200		43		0			
14:25	445	50	2225	2225		43		0			
14:30	450	50	2250	2250		43		0			
14:35	455	50	2275	2275		43		0			
14:40	460	50	2300	2300		43		0			
14:45	465	50	2325	2325		43		0			
14:50	470	50	2350	2350		43		0			
14:55	475	50	2375	2375		43		0			
15:00	480	50	2400	2400		43		0			
15:05	485	50	2425	2425		43		0			
15:10	490	50	2450	2450		43		0			
15:15	495	50	2475	2475		43		0			
15:20	500	50	2500	2500		43		0			
15:25	505	50	2525	2525		43		0			
15:30	510	50	2550	2550		43		0			
15:35	515	50	2575	2575		43		0			
15:40	520	50	2600	2600		43		0			
15:45	525	50	2625	2625		43		0			
15:50	530	50	2650	2650		43		0			
15:55	535	50	2675	2675		43		0			
16:00	540	50	2700	2700		43		0			
16:05	545	50	2725	2725		43		0			
16:10	550	50	2750	2750		43		0			
16:15	555	50	2775	2775		43		0			
16:20	560	50	2800	2800		43		0			
16:25	565	50	2825	2825		43		0			
16:30	570	50	2850	2850		43		0			
16:35	575	50	2875	2875		43		0			
16:40	580	50	2900	2900		43		0			
16:45	585	50	2925	2925		43		0			
16:50	590	50	2950	2950		43		0			
16:55	595	50	2975	2975		43		0			
17:00	600	50	3000	3000		43		0			
17:05	605	50	3025	3025		43		0			
17:10	610	50	3050	3050		43		0			
17:15	615	50	3075	3075		43		0			
17:20	620	50	3100	3100		43		0			
17:25	625	50	3125	3125		43		0			
17:30	630	50	3150	3150		43		0			
17:35	635	50	3175	3175		43		0			
17:40	640	50	3200	3200		43		0			
17:45	645	50	3225	3225		43		0			
17:50	650	50	3250	3250		43		0			
17:55	655	50	3275	3275		43		0			
18:00	660	50	3300	3300		43		0			
18:05	665	50	3325	3325		43		0			
18:10	670	50	3350	3350		43		0			
18:15	675	50	3375	3375		43		0			
18:20	680	50	3400	3400		43		0			
18:25	685	50	3425	3425		43		0			
18:30	690	50	3450	3450		43		0			
18:35	695	50	3475	3475		43		0			
18:40	700	50	3500	3500		43		0			
18:45	705	50	3525	3525		43		0			
18:50	710	50	3550	3550		43		0			
18:55	715	50	3575	3575		43		0			
19:00	720	50	3600	3600		43		0			
19:05	725	50	3625	3625		43		0			
19:10	730	50	3650	3650		43		0			
19:15	735	50	3675	3675		43		0			
19:20	740	50	3700	3700		43		0			
19:25	745	50	3725	3725		43		0			
19:30	750	50	3750	3750		43		0			
19:35	755	50	3775	3775		43		0			
19:40	760	50	3800	3800		43		0			
19:45	765	50	3825	3825		43		0			
19:50	770	50	3850	3850		43		0			

Comments: On the day of this test this was capable of producing 3 gpm or more. This test does not constitute an express warranty of the water supply system or its appurtenances.

Average Flow Rate: 5.7 GPM

Test Results: Pass

Reviewed By: JWR

Date: 6-4-14