



STATE OF ALASKA 52214
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started: 6 / 27 / 2016 Completed: 8 / 1 / 2016 Pump Install: / /

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
				Lower Kuskokwim School District PO Box 305 AK, 99559

Well location: Latitude 60.7222137 Longitude -161.772064
Meridian S Township 007N Range 071W Section 05 SW 1/4 of SW 1/4 of NE 1/4 of SE 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
Brown silt	0	2
Silt	2	10
Silt sand	10	15
Sand surface water	15	20
Sand organic	20	25
Sand frozen	25	30
Sand frozen	30	38
Coarse sand	38	40
Coarse sand gravel	40	45
Coarse sand gravel	45	50
Coarse sand gravel	50	55
Coarse sand gravel	55	60
Coarse sand gravel	60	65
Coarse sand gravel	65	70
Coarse sand gravel	70	75
Coarse sand gravel	75	80
Coarse sand gravel	80	85

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: 87 ft Casing stickup: 3 ft

Casing type: Steel Casing thickness: 0.365 inches

Casing diameter: 10 inches Casing depth: 45 ft

Liner type: PVS Depth: 87 ft Diameter: 6 inches

Note:

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

Screen type: Stainless Steel, Screen mesh size: 25

Screen start: 60 ft, Screen stop: 85 ft, Perforated ☐ Yes ☒ No

Perforation description: Perf from: ft, Perf

to: ft, Perf from: ft, Perf to: ft

Gravel packed ☒ Yes ☐ No Gravel start: 30 ft, Gravel stop: 85 ft

Note:

Static water (from top of casing): 8.9 ft on 8 / 1 / 2016 Artesian well ☐

Pumping level & yield: 33 feet after 4 hours at 10 gpm

Method of testing: Pump

Development method: Pump Duration: 8 hours

Recovery rate: 10 gpm

Grout type: Quick grout Volume

Depth: From 0 ft, To 45 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: Luke Demientieff

Company name: LUKE-N-SONS INC

Mailing address: 865 STOL DRIVE

City: NORTH POLE State: AK Zip:

Phone number: (907) 590 - 4885

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

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

Drilling Started: 6/27/16, Completed: 8/1/16

City/Borough: <u>CEGHEVILLE</u>	Subdivision:	BLOCK	LOT	Property Owner Name & Address: <u>P.O. 305</u> <u>BETHEL AK</u> <u>99559</u> <u>LOWER KUSKOKWIM</u> <u>SCHOOL DISTRICT</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 _____
<u>BROWN SILT</u> 0 2 <u>SILT</u> 2 10 <u>SILT SAND</u> 10 15 <u>SAND SURFACE WATER</u> 15 20 <u>SAND ORGANIC</u> 20 25 <u>SAND FROZEN</u> 25 30 <u>SAND FROZEN</u> 30 38 <u>COURSE SAND</u> 38 40 <u>COURSE SAND GRAVEL</u> 40 45 <u>COURSE SAND GRAVEL</u> 45 50 <u>COURSE SAND GRAVEL</u> 50 55 <u>COURSE SAND GRAVEL</u> 55 60 <u>COURSE SAND GRAVEL</u> 60 65 <u>COURSE SAND GRAVEL</u> 65 70 <u>COURSE SAND GRAVEL</u> 70 75 <u>COURSE SAND GRAVEL</u> 75 80 <u>COURSE SAND GRAVEL</u> 80 85 <u>COURSE SAND GRAVEL</u> 85 87				Depth of hole: <u>87</u> ft, Casing stickup: <u>3</u> ft Casing type: <u>STEEL</u> Thickness: <u>.315</u> inches Casing diameter: <u>10</u> inches Casing depth: <u>45</u> ft Liner type: <u>PVC</u> Diameter: <u>6</u> inches Depth: <u>87</u> ft Note: _____ Static water (from top of casing) <u>8.9</u> ft on <u>8/1/16</u> Pumping level & yield: <u>33</u> feet after <u>4</u> hours at <u>10</u> gpm Recovery rate: <u>10</u> gpm, Method of testing: <u>PUMP</u> Development method: <u>PUMP</u> Duration: <u>8 HRS.</u> Well intake opening type: ☐ Open end ☒ Open hole, Other ☐ ☐ Screened; Start: <u>60</u> ft, Stopped <u>85</u> ft Screen type: <u>STAINLESS</u> Slot/mesh size: <u>25 SLOT</u> ☐ Perforated; Start: _____ ft, Stopped _____ ft Start: _____ ft, Stopped _____ ft Gravel packed ☒ Yes ☐ No From <u>30</u> ft to <u>85</u> ft Note: _____ Grout type: <u>QUICK SET</u> Volume _____ Depth: from <u>0</u> ft, to <u>45</u> ft Pump intake depth: _____ ft Pump size _____ hp Brand name _____ Was well disinfected upon completion? ☐ Yes ☐ No Method of disinfection: _____ Driller comments/ disclaimers: _____ <u>OWNER WILL DISINFECT WELL</u> _____ Well driller name: <u>LUKE J. DEMIENTIEFF JR.</u> Company name: <u>LUKE-N-SONS INC.</u> Mailing address: <u>865 5TH DR.</u> City: <u>NORTH POLE</u> State: <u>AK</u> Zip: <u>99705</u> Phone number: (<u>907</u>) <u>590-4885</u> Driller's signature: <u>[Signature]</u> Date: <u>8/1/16</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

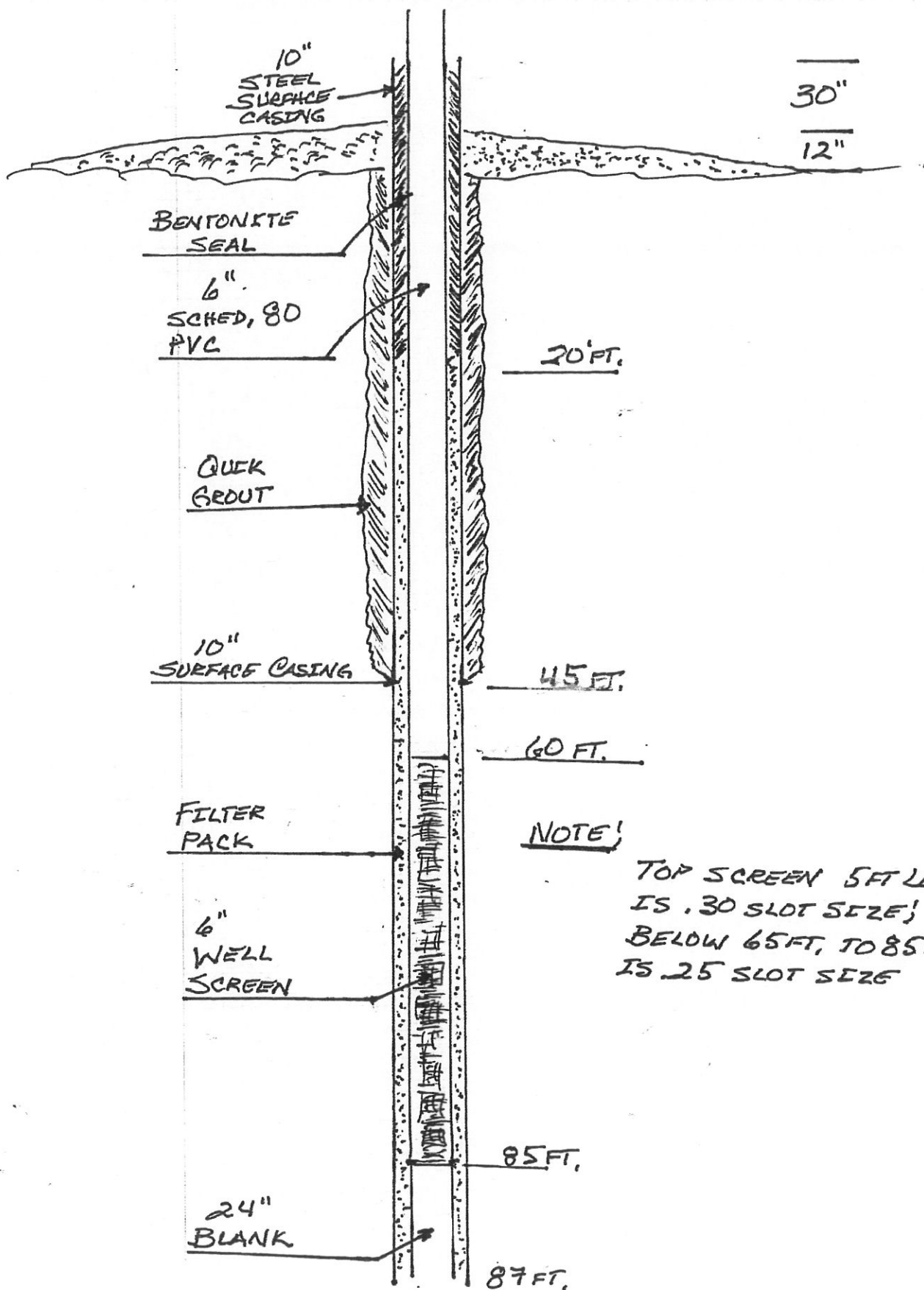
Phone (907)269-8639 and fax (907)269-8947

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 ☐





GV Jones & Associates, Inc.
WATER AND WASTEWATER PROCESS ENGINEERS
4141 B Street, Suite 309 Phone: (907) 346-4123
Anchorage, Alaska 99503 Fax: (907) 346-4124