80984

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: 3 / 1 / 2016 Pump Install: ___/___/_____

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Denali Borough				Golden Valley Electric Association AK,

Well location: Latitude 63.854084 **Longitude** -148.950363
Meridian F Township 012S Range 007W Section 20 , NE 1/4 of SE 1/4 of SE 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	Depth To
Sandy gravel with cobbles	0	24
Clay	24	35
Sandstone: fine to medium grained with zones of coarse sand and gravel sized grains.	35	119
Coal	119	127
Clay	127	150
Siltstone	150	171
Clay	171	173
Sandstone: fine to medium grained with coarse grained zones.	173	217
Siltstone	217	224
Clay	224	233

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

North

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: 250 ft Casing stickup: _____ft
Casing type: _____ Casing thickness: _____ inches
Casing diameter: _____ inches Casing depth: _____ 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): _____ ft on___/___/_____ Artesian well ☐
Pumping level & yield: _____ feet after _____ hours at _____ 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: SHANNON AND WILSON .....
Mailing address:.....
City: _____ State: AK Zip: _____
Phone number: (_____) _____- _____
Driller's signature: _____
Date: _____/_____/_____

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

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: _____-_____-_____

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

WELTS LOG ID 80984

Department of Natural Resources
Division of Mining, Land & Water
550 w 7th Ave., Suite 1020
Anchorage, AK 99501-3562
dnr.water.reports@alaska.gov

Department of Environmental Conservation
Division of Environmental Health, Drinking Water Program
555 Cordova Street
Anchorage, AK 99501
dec.ah.drinkingwater.reports@alaska.gov

State Of Alaska

Well Record of Decommissioning

This form is intended to convey information regarding the decommissioning of a water well as required by both DEC and DNR. Add additional datasheets as necessary.

Well Decommissioner or Contractor

Name: Brian Wille
Company: Wheaton Water Well, Inc
Address: 1190 N. Wasilla Fishhook Rd
(continued): Wasilla, AK 99654
Phone: 907-376-2041
Email: office@wheatonwells.com

Well and Owner Particulars *

Owner's name and address: Golden Valley Electric Assoc. 758 Illinois St. Fairbanks, AK 99701
Well location - Street & number: mile 2.5, Healy Spur Rd Healy, AK 99743
Well location - Subdivision, Lot & Block:
Meridian: Township: Range: Section: Quarters:
GPS (to 5 places): Latitude: 63°51.241 Longitude: 148°57.011' Datum:
Well Name or Number:

Please check all boxes that apply and provide all requested information. Do not check boxes that do not apply. * Note, Do not enter locational information for public water supplies - see note **, below.

Details of Former Well

Public water system? (See note **) Yes: No: X
If so, PWSID number:

	Yes:	No:
Single Family Domestic,?		
Commercial/ Fishery?		
Irrigation/Agricultural?		
Heating / Cooling?		

Former Well Description (Not required if original well log attached).

Original Driller's Name: Wheaton Water Well, Inc.

Well Type		Yes:	No:
	Drilled?	X	
	Driven?		
	Jetted?		
	Dug?		
	Unknown?		

Finish		Yes:	No:	N/A Unknown
	Cased?	X		
	Capped?	X		
	Screened?		X	
	Perforated?	X		
	Well liner present?		X	

Well depth (ft bls): 191' Date of completion: Oct. 22, 2021
Static water (ft bls): N/A Flowing artesian? Yes: No: X N/A Unknown
Bedrock (ft bls): N/A Flood prone site? Yes: No: X N/A Unknown
Casing type: steel Well condition? Good: X Poor: N/A Unknown
Diameter (inches): 6" Grouted? Yes: No: X N/A Unknown
Stickup (ft): Well house? Yes: No: X N/A Unknown

** Public Water System decommissioning may require additional documentation, please contact DEC in this regard.

Decommissioning notes:

Include notes regarding any deviations from state approved methodes of decommissioning the well.

no bentonite used below 20' to prevent contamination of Production well 30' away.

Reason for well decommissioning:

monitoring test well only, never production well

Excavation and Fill Details

Excavation Depth (ft)? 4.5'
Type of fill used? chlorinated washed gravel/Bentonite
Volume of fill (cu ft)? 3cuft. Bentonite plug
Bags of bentonite in casing? 6

Decommissioning process

	Yes:	No:	N/A Unknown
Casing cut below grade?	X		
Casing fully removed?		X	
Casing filled with bentonite?	X		15'
Casing welded closed?	X		
Borehole refilled?	X		
Screened area filled with gravel?			N/A
Perforated area filled with gravel?	X		
Excavated pit refilled?	X		
Pit area mounded?	X		

	Yes:	No:	N/A Unknown
Well disinfected prior to decommissioning?	X		
Plumbing removed from casing?			N/A
Liner (if any) removed?			N/A
Electric wiring removed from site?			N/A
Attached an original well log?			N/A
Well log listed at DNR?		X	
Local authorities notified?	X		
DEC notified of decommissioning?	X		
DNR notified of decommissioning?	X		

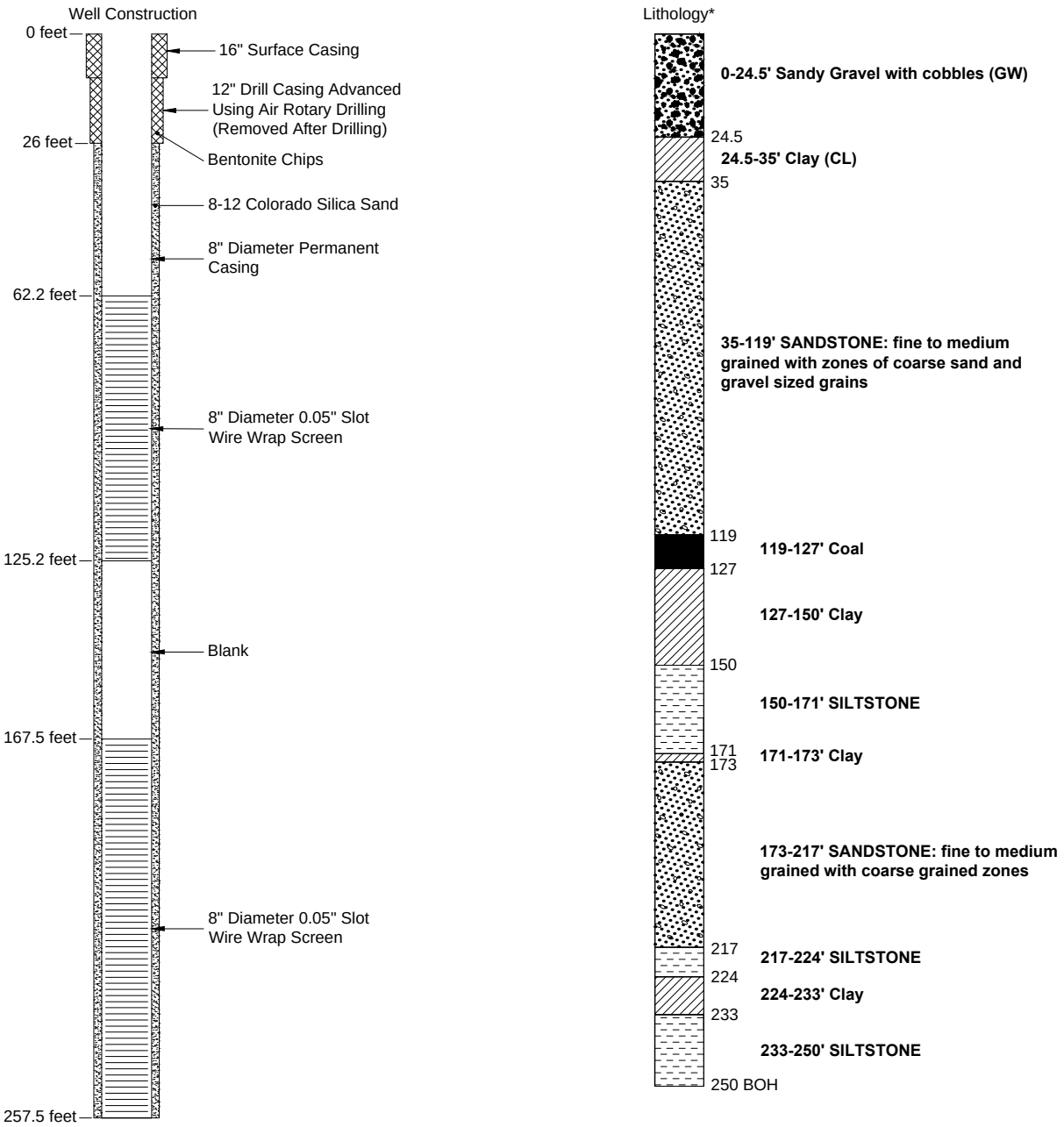
Signatures (*** => are required)

Owner***: [signature]
Date: 09 / 1 / 2021

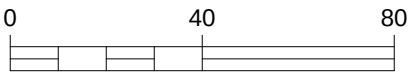
Decommissioner / Contractor***: [signature]
Date: 06 / 25 / 2021

1) Deliver this form to DNR and DEC within 45 days of decommissioning, as per state regulations 11 AAC 93.140.
2) Attach an original water well log, if available. A blank water well log form is available for use if the lithology and well construction details are known but the original water well log is missing.
3) Attach any maintenance or water usage records that may apply to this well and provide an adequate locational description, including maps or sketches. Use additional pages as needed.
4) This form is under development and is subject to change. Please submit suggestions for changes or improvements to either DNR or DEC at the addresses listed above.

Please attach schematics and photos to further document the information provided on this form. This is particularly important for public water supply wells and also any other wells that might impact the public water supply.



This is a summary of Well #4 however the lithology is based on the test well/exploratory boring that was decommissioned.



Vertical Scale in Feet

NOTE

* Lithology based on exploratory boring for Unit 2 on August 10, 2015.

Healy Power Plant
Healy, Alaska

WELL 4 SUMMARY

March 2016 31-1-11736-002

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 3

Filename: J:\311\11736-002\31-1-11736-002 Healy Well Log.dwg Date: 03-21-2016 Login: sac

Figure #2 Site Map

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES AND UTILITIES ARE SHOWN.

SCALE: 1" = 200'
WHEN PLOTTED AT 11 x 17 PAGE SIZE
0 200' 400' 600'

N

SOURCE NOTES

1. Drawing developed from Kodiak Mapping Inc., Healy Plant Plan and Topo.dwg dated July 2016 and from PDC Inc. Engineers, Topographic Survey, project 14004FB, dated April 2014.
2. Lidar was collected on 05/29/16 at a density of 17ppm (68ppm aggregate) by Kodiak Mapping, Inc., Palmer, Alaska.
3. The horizontal datum is NAD 83 Alaska State Plane Zone 4 (US feet) the vertical datum is based on NAVD 88 elevations (GEOID12B).
4. Monitoring wells 9 and 10 were surveyed by Lounsbury and Associates (June 12, 2017).
5. Former settling pond location from a historical drawing found in the Healy Power Plant's document archive room of Unit 2 ash handling system design.

NOTES

1. Staff Gauge 1 (SG1): Top of road bridge railing. Elevation 1,283.68 Feet.
2. Staff Gauge 2 (SG2): Top of sheet pile wall. Elevation 1,260.48 Feet.

LEGEND

- Fence
- Overhead Electric Line
- Buried Electric Line
- Communication Line
- Bull Rail
- Road
- Minor Elevation Contour (1 Ft Inverval)
- Major Elevation Contour (5 Ft Interval)
- Vegetation
- #1 — Groundwater Supply Well
- MW-4 — Existing Monitoring Well
- MW-13 — Soil Boring Location (Well Not Installed)
- SG2 — Staff Gauge
- Pavement
- Power Plant Discharge Line (Approximate)
- Power Plant Intake Line (Approximate)
- 1 — Petroleum Contaminated Site (cleanup complete with institutional controls)
- Utilities Known to be Present (Approximate)
- Above Ground Storage Tank
- Ash Settling Ponds
- Former Settling Pond
- 2019 Test Pit (Approximate)

Site
GOLDEN VALLEY ELECTRIC ASSOCIATION, INC.
HEALY POWER PLANT
HEALY, ALASKA

Report
2019 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Drawing
SITE PLAN

Date January 2020	Scale 1" = 200'	Fig. No. 2
File Name F2_Site Plan_19	Project No. 104.00367.19001	

SLR