



STATE OF ALASKA 23211
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started: ____ / ____ / ____ Completed: 11 / 9 / 1993 Pump Install: ____ / ____ / ____

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Municipality of Anchorage				US DOD, AIR FORCE, ELMENDORF AFB ,HOSPITAL ,

Well location: Latitude 61.23294799999999 Longitude -149.742537
Meridian S Township 013N Range 003W Section 12 NE 1/4 of SE 1/4 of SW 1/4 of NW 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
Loose sand & gravel w/cobbles	0	25
Streaks of grey silt in gravel	25	30
Silty sand & gravel w/occasional cobbles	30	70
Grey cemented hard pan	70	82
Silty sand and gravel, some runny sand (fine)	82	107
brown/grey medium hard pan	107	116
Cleaner medium sand and gravel	116	117
Very silty gravel	117	125
Coarse gravel cobbles wet	125	126
Medium sand w/ traces of small gravel	126	128
Heavier silt w/cemented conglomerate	128	135
Silty sand gravel w/ cobbles	135	140
Grey silty sand and gravel wet	140	172
Tight grey /brown hard pan	172	185
Silty gravel,wet,cleaner sand water streak	185	201
gravelly silts	201	211
Silty gravel w/ water	211	219

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

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: 278 ft Casing stickup: _____ ft

Casing type: _____ Casing thickness: _____ inches

Casing diameter: _____ inches Casing depth: 278 ft

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

Note: FULL CASE

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: DENALI 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: _____ - _____ - _____

RECEIVED

DEC 12 1994

Appendix B

Driller's Log

WATER WELL RECORD
STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
Division of Geological & Geophysical Surveys

PW-1

ALASKA DNR/DIV OF WATER

Drilling Permit No. _____

LOCATION OF WELL (Please complete either 1a, 1b or 1c.)

A. D. L. No. _____

1a. Borough	Subdivision	Lot	Block	1b. 1/4 qtrs — of — of — of —	Section No.	Township N ☐ S ☐	Range E ☐ W ☐	Meridian
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1c. DISTANCE AND DIRECTION FROM ROAD INTERSECTIONS Street Address and Area of Well Location	3. OWNER OF WELL: Corp of Engineers Address: Elmendorf Medical Facility Elmendorf AFB, Alaska
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2. WELL LOG Material Type	Feet Below Surface		4. WELL DEPTH: (ft.) <u>280</u> ft.	5. DATE OF COMPLETION <u>11 - 9 - 93</u>
	Top	Bottom		
loose sand & gravel w/ cobbles	0	25	6. ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☐ Auger ☐ Jetted ☐ Bored ☐ Other:	7. USE: ☐ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Recharge ☐ Commercial ☐ Test Well ☐ Other: <u>cooling well</u>
streaks of grey silt in gravel	25	30		
silty sand & gravel w/ occasional cobbles	30	70	8. CASING: ☐ Threaded ☒ Welded diam. <u>24</u> in. to <u>145</u> ft. Depth Weight <u> </u> lbs / ft diam. <u>20</u> in. to <u>280</u> ft. Depth Slickup <u>2</u> ft.	9. FINISH OF WELL: Type: <u>n/a</u> Diameter: _____ Slot/Mesh Size: _____ Length: _____ Set between _____ ft. and _____ ft. Backfilling <u>n/a</u> Gravel pack _____
grey, cemented hard pan	70	82		
silty S & G, some runny sand (fine)	82	107	10. STATIC WATER LEVEL: <u>n/a</u> ft. <u>11</u> / <u>1</u> ☐ Above or ☐ Below land surface Date Equipment used: _____	11. PUMPING LEVEL below land surface and YIELD <u>n/a</u> _____ ft. after _____ hrs. pumping _____ g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.
brn/grey med. hard pan	107	116		
cleaner med. S & G (wet)	116	117	12. GROUTING Well Grouted: ☐ Yes ☐ No <u>n/a</u> Material: ☐ Neat Cement ☐ Other: _____	13. PUMP: (if available) HP <u>n/a</u> Length of Drop Pipe _____ ft. capacity _____ g.p.m. ☐ Subm. ☐ Jet ☐ Centrifical ☐ Other
very silty gravel	117	125		
coarse gravel, cobbles, (wet)	125	126	14. REMARKS:	15. Water Temperature _____ ° ☐ F ☐ C
med. sand w/ traces of sm. gravel	126	128		
heavier silt w/ cemented conglomerate	128	135		
silty S & G w/ cobbles	135	140		
grey silty S & G, wet	140	172		
tight grey/brn hard pan	172	185		
silty gravel (wet)	185	201		
cleaner sand H ₂ O strk. @ 190-191				
gravelly silts	201	211		
silty gravel w/ H ₂ O @ 217	211	219		
very silty conglomerate w/ cobbles	219	230		
H ₂ O S & G, cleaner	230	231		
med. gravelly silt	231	237		
very thick & creamy silt	237	240		
grey/brn. gravelly silt	240	259		
tight, grey/blk. silt w/ sm. gravel pieces	259	264		
gray clay w/ seams of coal	264	280		

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief;

Denali Drilling, Inc.

1495

Registered Business Name

Contract License Number

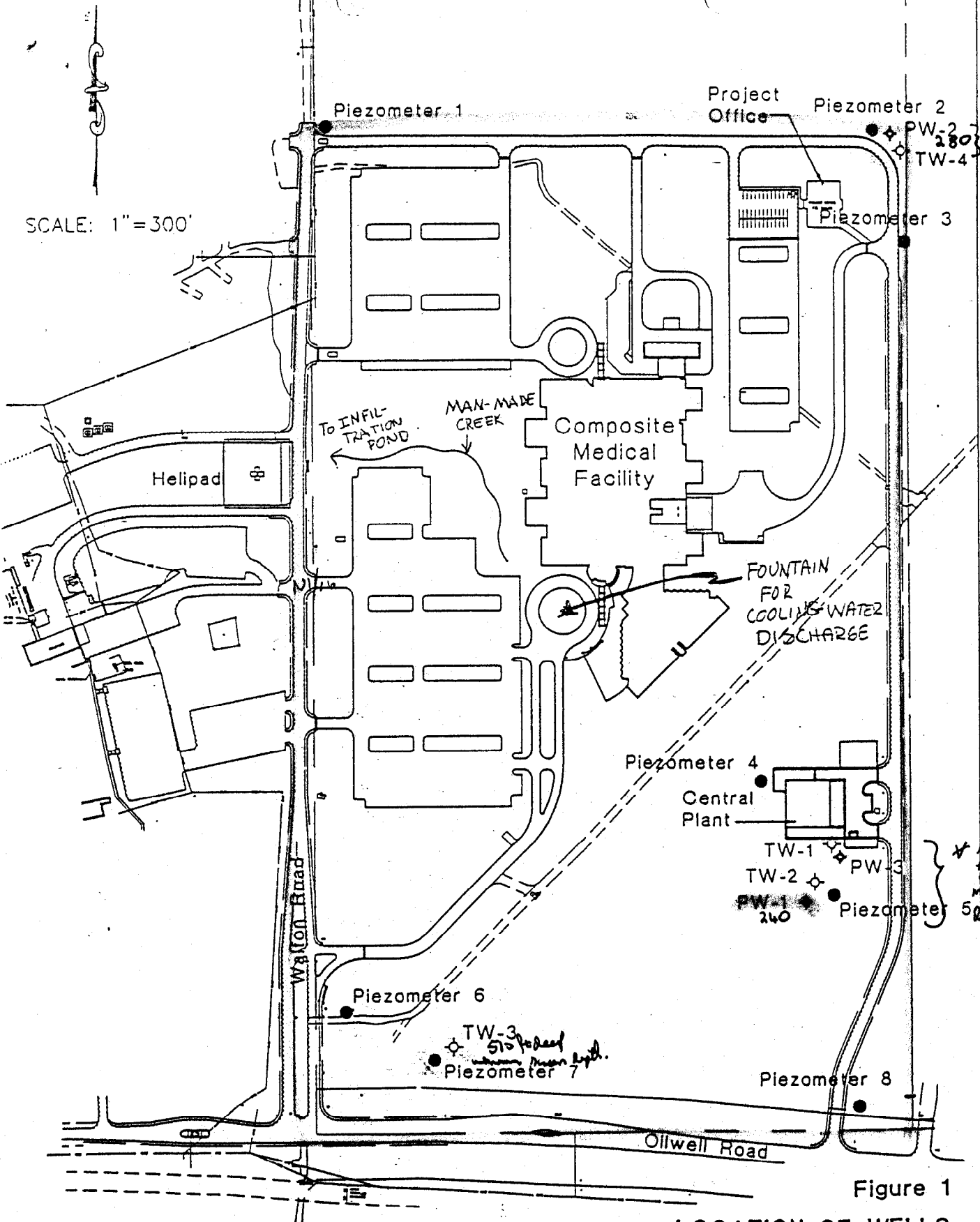
Address: 6000 A Street, Anchorage, Alaska 99518-1815

Signed: [Signature]

Date: 11-10-93

Authorized Representative

USE LOCAL NO. 5813-3-12BCDA



ATTACHMENTS

SB13-3-12 BCD A

Figure 1
LOCATION OF WELLS

DOWL ENGRS / HOSPITAL WELLS / ELMENDORF AFB