



40294

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

**WATER WELL LOG** Revised 08/18/2016

Drilling Started: 9 / 5 / 2013 Completed: 10 / 16 / 2013 Pump Install:     /    /    

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Fairbanks North Star Borough	FORT GREELY		NONE	Fort Greely Fort Greely AK,

**Well location: Latitude** \_\_\_\_\_ **Longitude** \_\_\_\_\_  
 Meridian F \_\_\_\_\_ Township 011S Range 010E Section 22 \_\_\_\_\_, \_\_\_\_\_ 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=a18500000BYub3AAD](https://my.ngwa.org/NC_Product?id=a18500000BYub3AAD)

	Depth	
	From	To
GRAVEL & DIRT	0	5
DIRT & ROCKS	5	10
COARSE DRY GRAVEL	10	50
SILTY CLAY & SAND DAMP	50	55
GRAVEL & STICKY CLAY/SILT DAMP	55	90
SMALL SOFT GRAVEL	90	140
COARSE SANDY GRAVEL	140	200
GRAY GRAVEL COARSE SAND & WATER 200 GPM	200	240
GRAY COARSE GRAVEL & WATER 500 GPM	240	260
GRAY COARSE GRAVEL AND WATER 600 GPM	260	280
BROWN SILTY GRAVEL & WATER	280	290
BROWN SILTY SAND & WATER	290	300

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: 300 ft Casing stickup: 3.5 ft  
 Casing type: STEEL Casing thickness: 0.25 inches  
 Casing diameter: 10 inches Casing depth: 266 ft  
 Liner type: \_\_\_\_\_ Depth: \_\_\_\_\_ ft Diameter: \_\_\_\_\_ inches  
 Note: \_\_\_\_\_

Well intake opening type:  Open end,  Open hole,  Other screened  
 Screen type: JOHNSON, Screen mesh size: 0.1  
 Screen start: 266 ft, Screen stop: 286 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: &apos; RISER W/ PACKER

Static water (from top of casing): 175 ft on 10 / 16 / 2013 Artesian well   
 Pumping level & yield: 286 feet after 3.5 hours at 550 gpm  
 Method of testing: AIR LIFT  
 Development method: AIR SURGE Duration: 0.5 HOURS  
 Recovery rate: 550 gpm

Grout type: BENTONITE Volume \_\_\_\_\_  
 Depth: From \_\_\_\_\_ ft, To 30 ft

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

Final pump intake depth: 265 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: Dan Brotherton  
 Company name: ARCTIC DRILLING  
 Mailing address: P.O. BOX 58317  
 City: FAIRBANKS State: AK Zip: 99711  
 Phone number: (07) \_\_\_\_\_ 451 - 8706

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**.

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](mailto:dnr.water.reports@alaska.gov)

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

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**ARCTIC DRILLING, INC.**  
 P.O. BOX 58317  
 FAIRBANKS, ALASKA 99711  
 Phone: (907) 451-8706 Fax: (907) 452-4465

**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF MINING, LAND & WATER**  
**WATER WELL RECORD**

Drilling Started: 9 / 5 / 2013, Completed: 10 / 16 / 2013

Legal Description:		BLOCK	LOT	Property Owner Name & Address:	
City/Borough:	Subdivision:			Doyon Utilities	
Delta/ Greely				Fort Greely, New AAAF waterwell	
Meridian _____ Township _____ Range _____		Section _____, _____ 1/4 of _____ 1/4 of _____ 1/4 of _____ 1/4			
<b>BOREHOLE DATA:</b> (from ground surface)		Depth	Drilling method: <input checked="" type="checkbox"/> Air rotary, <input type="checkbox"/> Cable tool <input type="checkbox"/> Other _____		
Material: Type, Color & wetness		From	To	Well use: <input checked="" type="checkbox"/> Public supply, <input type="checkbox"/> Domestic, <input type="checkbox"/> Other _____	
Gravel and dirt		0	5	Depth of hole: <u>300</u> ft, Casing stickup: <u>3.5</u> ft	
Dirt and rocks		5	10	Casing type: <u>STEEL</u> Thickness <u>.250</u> inches	
Coarse dry gravel		10	50	Casing diameter: <u>10</u> inches Casing depth <u>266</u> ft	
Silty clay and sand, damp		50	55	Liner type: _____ Diameter: _____ inches Depth: _____ ft	
Gravel and sticky clay/silt, danmp		55	90	Static water (from top of casing): <u>175</u> ft on <u>10 / 16 / 13</u>	
Small soft gravel		90	140	Pumping level & yield: <u>286</u> feet after <u>3,1/2</u> hours at <u>550</u> gpm	
Coarse sandy gravel		140	200	Recovery rate: <u>550</u> gpm, Method of testing: <u>AIR LIFT</u>	
Grey gravel, coarse sand and water 200gm		200	240	Development method: <u>AIR SURGE</u> Duration: <u>5 HOURS</u>	
Grey coarse gravel and water, 500gm		240	260	Well intake opening type: <input checked="" type="checkbox"/> Open end <input type="checkbox"/> Open hole	
Grey coarse gravel and water, 600 gpm		260	280	<input checked="" type="checkbox"/> Screened; Start: <u>266</u> ft, Stopped <u>286</u> ft	
Brown silty gravel and water		280	290	Screen type: <u>Johnson</u> Slot/mesh size <u>.100</u>	
Brown silty sand and water		290	300	<input type="checkbox"/> Perforated; Start: _____ ft, Stopped _____ ft	
				Start: _____ ft, Stopped _____ ft	
				Note: <u>.6 Ft riser with packer</u> . . . . .	
				Grout type: <u>Bentonite</u> Volume <u>32</u> cf	
				Depth; from <u>0</u> ft, to <u>30</u> ft	
				Pump intake depth: <u>265</u> ft	
				Pump size <u>40</u> hp Brand name <u>Goulds</u>	
				Was well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
				Method of disinfection: . . . . .	
				Driller comments/ disclaimers: . . . . .	
				. . . . .	
				Well driller name: <u>Dan Brotherton</u> . . . . .	
				Company name: <u>ARCTIC DRILLING, INC.</u> . . . . .	
				Mailing address: <u>P.O. BOX 58317</u> . . . . .	
				City: <u>FAIRBANKS</u> State: <u>AK</u> Zip <u>99711</u>	
				Phone number : ( <u>907</u> ) <u>451</u> - <u>8706</u>	
				Drillers signature: _____	
				Date: <u>10 / 16 / 2013</u>	

State law requires that a copy of this well log be submitted to the state of Alaska within 45 days. **CITY OF ANCHORAGE ONLY**

(Alaska statutes: 38.05.020, 38.05.035, 41.08.020, 46.15.020 and regulations 11 AAC 93.140.)

**DNR/DIVISION OF MINING, LAND & WATER**  
 550 West 7th Ave., Suite 900A  
 ANCHORAGE AK 99501-3577  
 Phone (907)269-8503, Fax (907) 269-8947

**The City of Anchorage** requires that a copy of this log be sent to the city within 60 days and a copy of this log be sent to the owner of the property on which the well is located within 30 days.

**REQUIRED BY THE CITY OF ANCHORAGE ONLY:**  
 Permit Number: \_\_\_\_\_  
 Date of Issue: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 Parcel Identification Number: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 Is well located at approved permit location?  Yes  No