

STATE OF ALASKA 34197 DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND & WATER Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Starte	ed:/		eted: 3 / 5 / 2008 Pump Install://
City/Borough	Subdivision	Block	Lot Property Owner Name & Address
Kenai Peninsula Borough			CITY OF SOLDOTNA ,
Well location: Latitude 60.		•	Longitude151.09818499999997
Meridian S Towns	hip <u>005N</u> Range <u>010\</u>	V Section	n <u>30</u> , <u>SE</u> 1/4 of <u>SW</u> 1/4 of <u>NW</u> 1/4 of <u>SE</u> 1/4
BOREHOLE DATA: (from ground surface) Suggest T.M. Hanna's hydrogeologic classification system* https://my.ngwa.org/NC			Drilling method: ☐Air rotary, ☐Cable tool, ☐Other
	<u>From</u>	<u>To</u>	☐ Irrigation/Agriculture, ☐ Grounding, ☐ Recharge/Aquifer Storage,
			☐ Heating, ☐ Geothermal Exploration, ☐ Other
			Fluids used:
			Depth of hole: 276 ft Casing stickup:ft
			Casing type: inches Casing thickness: inches
			Casing diameter: inches Casing depth: ft Liner type: Depth: ft Diameter:inches
			Note: CASED AND SCREENED 239 FT TO 274 FT
			Well intake opening type: Open end, Open hole, Other screened
			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): 0 ft on / / Artesian well
			Pumping level & yield: feet after hours at 500 gpm
			Method of testing:
			Development method: Duration:
			Recovery rate: gpm Grout type: Volume
Include description or sketch of	well location (include roa	nd names,	Depth: Fromft, Toft Final pump intake depth: ft Model:
buildings, etc.):	,		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:
			Water quality parameters tested:
			Company name: KRAXBERGER DRILLING
			Mailing address: 48230 GAS WELL ROAD
		↑	City: SOLDOTNA State: AK Zip: 99669
		North	Phone 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			Driller's signature:
			Date://
available at: https://dnr.alaska.gov/welts/			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.
OR email electronic well logs to			City Permit Number: Date of Issue:/
dnr.water.reports@alaska.gov			Parcel Identification Number:
-			

Geologic Well Log For Soldotna Well CT

Drilled 3/3/08 to 3/5/08, Kraxberger Drilling CCGT

Material Description

	Drilled 3/3/08 to 3/5/08, Kraxberger Drilling –	
Depth	Material Description	Aquifer
(feet)		Description
0-2	Fine sand with clay, low organics	Saturated/unconfined aquifer
2-5	Fine to very fine sand with increasing clay content, some woody debris	Saturated/unconfined aquifer
5-10	Coarse sand to gravel with fine sand and clay, low organics,	Saturated/unconfined
10-12	Coarse sand to gravel, cleaner (much lower in clay and very fine sand)	unsaturated
12-15	Coarse sand to gravel, clean, unsaturated	unsaturated
15-17	Very fine sand, with occasional coarse sand grains, clean and unsaturated	unsaturated
17-20	Fine to medium sand with coarse sand, unsaturated	unsaturated
20-21	Fine to medium sand with coarse sand, prevalent 5mm gravel	unsaturated
21-23	Fine to coarse sand and gravel to 15 mm, unsaturated	unsaturated
23-25	Fine to coarse sand and gravel to 15 mm, unsaturated	unsaturated
25-26	Very fine to fine sand with significant gravel to 0 mm and coarse sand, clean, unsaturated	unsaturated
26-28	Very fine to fine sand with significant occasional gravel to 5 mm, unsaturated	unsaturated
28-29	Coarse sand and gravel to 5mm, with fines, unsaturated	unsaturated
29-31	Very fine to medium sand with coarse sand, unsaturated some gravel to 3 mm	unsaturated
31-36.5	Medium and coarse sand and gravel to 10 mm, well sorted and clean; air escaping into formation at 35 feet: hard drilling, adding water	unsaturated
36.5-42	Medium and coarse sand and gravel to 20 mm, well sorted and clean	unsaturated
42-45	Medium and coarse sand, less gravel to 10 mm, well sorted and clean	unsaturated
45-50	Medium and coarse sand and gravel to 10mm, well sorted and clean	unsaturated
50-52	Medium and coarse sand and gravel, well sorted, gravel to 20 mm, clean	unsaturated
52-57	Gravel to 25mm, with medium and coarse sand, clean	unsaturated
57-60	Gravel, with some decreasing medium and coarse sand, clean	unsaturated
60-62	Gravel, medium to coarse to 20mm, unsaturated, clean	unsaturated
62-65	Medium to coarse sand and gravel to 20 mm with clay, gray	unsaturated
65-67	Medium to coarse sand and increasing gravel to 30 mm with clay, gray	unsaturated

67- 70	Medium to coarse sand and increasing gravel to 10 mm with significant clay layers, gray	unsaturated
70- 73	Gravel to 25mm with medium to coarse sand and clay, less clay and a little more sorted into clay layering	unsaturated

73-76	Clean medium to coarse sand with some gravel to 5 mm, unsaturated	unsaturated
76-78	Medium sand, clean, with some coarse sand and occasional gravel	unsaturated
	to 20 mm	
78-80	Medium sand with some fine sand, well sorted and saturated (clean)	Saturated
80-81	Medium sand to gravel up to 10mm, with significant clay and silt	Saturated
81-85	Gravel, with gray clay, silt and medium to coarse sand	confining
85-87	Gravel to 10mm, and clay layers with fine to medium and coarse	confining
	sand	
87-90	Gravel to 10mm, and clay layers with fine to medium and coarse	confining
	sand, less clay	}
90-92	Gravel to 20mm, and clay layers with fine to medium and coarse	confining
	sand, much less clay	
92-98	Gray clay, plastic, with some coarse and medium sand	confining
98-105	Gray clay, plastic, and gravel to 10mm, with medium to coarse sand	confining
105-107	Gray clay, plastic, and gravel to 10mm, with medium to coarse sand	confining
107-110	Gravel to 10mm and gray clay layers, plastic with medium and	confining
	coarse sand	
110-116	Gravel to 10mm and gray clay layers, plastic with medium and	confining
	coarse sand	
116-120	Gravel to 10mm and gray clay layers, plastic with medium and	confining
	coarse sand	
120-124	Gravel to 10mm and gray clay layers, plastic with medium and	confining
	coarse sand, with increasing clay layers and medium sand	
124-126	Gravel to 5mm and gray clay layers, plastic with medium and	confining
	coarse sand	_
126-130	Gravel, some to 20mm, rounded, with some medium and coarse	confining
	sand, little clay	
136-140	Gravel to 25mm, with silty gray clay (plastic)	confining
140-145	Rounded gravel to 20mm, with medium sand, pretty clean	Aquifer/saturated
145-150	Medium sand with some gravel to 40mm, clean, shell fragments	Aquifer/saturated
150-156	Medium sand with some gravel to 40mm, clean, shell fragments	confining
156-160	Medium sand with some gravel to 40mm, clean, shell fragments,	confining
	with some clay	
160-165	Subrounded to subangular gravel with medium to fine sand, with	confining
	clay	
165-170	Gravel and clay, gravel to 20mm, with some coarse sand to silt	confining
170-176	Gravel and clay, gravel to 20mm, with some coarse sand to silt	confining
176-180	Gray clay and gravel to 10mm	confining

180-185	The state of the s	confining
185-190	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	confining
190-194	The graver to zonini	confining
194-196	- Joseph and graver to Johns	confining
196-200	- Total and glaver to Tollini	confining
200-205		confining
205-210	Gravel to 15mm and silty gray clay	confining
210-213	Gravel to 15mm and silty gray clay	confining
213-216	Clay layers, not too plastic, and gravel to 15mm, with coarse sand to silt	confining
216-220	Clay layers, not too plastic, and gravel to 15mm, with coarse sand to silt, more sandy	confining
220-225	Silty clay, with gravel to 20mm and coarse sand	
225-230	Clay layers and gravel to 15mm, with some coarse sand	confining
230-236	Clay layers and gravel to 15mm, with some coarse sand, with more	confining
236	I graver than clay layers	confining
230	Develops to a medium sand with some coarse sand	Saturated
236-239	Crowler 10	aquitard
239-242	Gravel to 10mm rounded and coarse sand with medium sand, clean	Saturated aquifer
242-244	I Wedium to coarse sand with some gravel to 10mm, rounded clean	Saturated aquifer
244-245	I wedium to coarse sand with some gravel to 10mm, rounded class	Saturated aquifer
245-247	Medium to coarse sand with occasional gravel, one to 70mm; clean	Saturated aquifer
247-249	Coarse sand and gravel, gravel to 30mm, clean	Saturated aquifer
249-250	Coarse sand and gravel, gravel to 30mm, clean	
	Medium to coarse sand, uniform (well sorted) and clean	Saturated aquifer
250-252	Medium to coarse sand with occasional gravel to 20mm	Saturated aquifer
252-254	Medium to coarse sand with occasional gravel to 20mm, with increasing gravel content	Saturated aquifer
254-255	Coarse sand to gravel to 15mm, clean	Cotumes d :C
255-259	Coarse sand, very clean and well sorted, occasional gravel to 20mm, rounded	Saturated aquifer Saturated aquifer
259-260	Coarse sand, very clean and well sorted, occasional gravel to 20mm, rounded	Saturated aquifer
260-262	Gravel and coarse sand, gravel to 25mm rounded, clean	
262-264	Coarse sand and gravel, clean, grave31 to 15mm	Saturated aquifer
264-267	Medium sand with some coarse sand, well sorted and clean,	Saturated aquifer
	occasional gravel to 20mm	Saturated aquifer
267-270	Medium sand with some coarse sand and gravel, clean	Saturated aquifer
270-273	gravel gravel gravel gravel gravel gravel	Saturated aquifer
273-276	Medium sand with fine sand and coarse sand, less gravel, clean	Saturated aquifer