



STATE OF ALASKA 34013
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started: ____ / ____ / ____ Completed: 2 / 10 / 2011 Pump Install: ____ / ____ / ____

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Kenai Peninsula Borough	PARADISE HEIGHTS	B2	L13	S & C MCEWEN ,

Well location: Latitude 59.672974162793935 Longitude -151.4824587106705
Meridian S Township 006S Range 013W Section 10 SW 1/4 of NE 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
brown topsoil	0	16
brown clay	16	20
grey clay	20	38
coal	38	39
grey clay	39	68
coal	68	70
grey clay	70	95
grey clay and coal 1gpm	95	99
grey clay	99	109
coal	109	111
brown clay	111	131
grey clay	131	132
sandy coal	132	133
grey clay	133	188
grey clay	188	194
sand	194	198
grey clay 3gpm	198	202

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: 202 ft Casing stickup: 2 ft

Casing type: steel Casing thickness: .25 inches

Casing diameter: 6 inches Casing depth: 80 ft

Liner type: pvc Depth: 202 ft Diameter: 4.5 inches

Note: CASE TO 80 FT

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

Screen type: _____, Screen mesh size: _____

Screen start: _____ ft, Screen stop: _____ ft, Perforated ☒ Yes ☐ No

Perforation description: _____ Perf from: 178 ft, Perf

to: 198 ft, Perf from: _____ ft, Perf to: _____ ft

Gravel packed ☐ Yes ☒ No Gravel start: _____ ft, Gravel stop: _____ ft

Note: _____

Static water (from top of casing): 163 ft on ____ / ____ / ____ Artesian well ☐

Pumping level & yield: 190 feet after 2 hours at 3 gpm

Method of testing: sonar sounder

Development method: air water Duration: 3

Recovery rate: 3 gpm

Grout type: bentonite Volume 50lbs

Depth: From 10 ft, To 30 ft

Final pump intake depth: 194 ft Model: _____

Pump size: .5 hp Brand name: Goulds

Was well disinfected upon completion? ☒ Yes ☐ No

Method of disinfection: bleach

Was water quality tested? ☐ Yes ☒ No

Water quality parameters tested: _____

Well driller name: _____

Company name: VANDEHEY WELL 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: _____ - _____ - _____

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

34013

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

Drilling Started: 2/8/2011 Completed: 2/10/2011

City/Borough:	Subdivision:	BLOCK	LOT	Property Owner Name & Address: <u>Scott J. Smith, McBurn</u> <u>2091 Horizon Ct</u> <u>Homer AK 99603</u>
<u>Kenai</u>	<u>Paradise Heights</u>	<u>2</u>	<u>13</u>	
Meridian <u>Seward</u> Township <u>65</u> Range <u>134</u> Section <u>10</u>		1/4 of <u>1/4</u> of <u>1/4</u> of <u>1/4</u>		
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 top soil</u>		<u>1</u>	<u>16</u>	Depth of hole: <u>202</u> ft, Casing stickup: <u>2</u> ft
<u>Brown clay</u>		<u>16</u>	<u>20</u>	Casing type: <u>Steel</u> Thickness <u>1/4</u> inches
<u>Grey clay</u>		<u>20</u>	<u>38</u>	Casing diameter: <u>6.25</u> inches Casing depth <u>80</u> ft
<u>Coal</u>		<u>38</u>	<u>39</u>	Liner type: <u>PVC</u> Diameter: <u>4.5</u> inches Depth: <u>202</u> ft
<u>Grey clay</u>		<u>39</u>	<u>68</u>	Note: _____
<u>Coal</u>		<u>68</u>	<u>70</u>	Static water (from top of casing): <u>163</u> ft on <u>2/10/2011</u>
<u>Grey clay</u>		<u>70</u>	<u>95</u>	Pumping level & yield: <u>190</u> feet after <u>2</u> hours at <u>3</u> gpm
<u>Grey clay & Coal</u> <u>1 gpm</u>		<u>95</u>	<u>97</u>	Recovery rate: <u>3</u> gpm, Method of testing: <u>Sonar Sounder</u>
<u>Grey clay</u>		<u>97</u>	<u>109</u>	Development method: <u>Air Water</u> Duration: <u>3 hrs</u>
<u>Coal</u>		<u>109</u>	<u>111</u>	Well intake opening type: ☐ Open end ☐ Open hole ☒ Other ☒
<u>Brown clay</u>		<u>111</u>	<u>131</u>	☐ Screened; Start: _____ ft, Stopped _____ ft
<u>Grey clay</u>		<u>121</u>	<u>122</u>	Screen type: _____ Slot/mesh size _____
<u>Sandy Coal</u>		<u>132</u>	<u>133</u>	☒ Perforated; Start: <u>128</u> ft, Stopped <u>128</u> ft
<u>Grey clay</u>		<u>133</u>	<u>188</u>	Start: _____ ft, Stopped _____ ft
<u>Coal</u>		<u>188</u>	<u>189</u>	Gravel packed ☐ Yes ☒ No From _____ ft to _____ ft
<u>Grey clay</u>		<u>189</u>	<u>194</u>	Note: <u>Formation: Pack at 1.75, 1.65, 1.55</u>
<u>Sand</u>		<u>194</u>	<u>198</u>	Grout type: <u>Bentonite</u> Volume <u>50 #</u>
<u>Grey clay</u> <u>3 gpm</u>		<u>198</u>	<u>202</u>	Depth: from <u>10</u> ft, to <u>30</u> ft
				Pump intake depth: <u>194</u> ft
				Pump size <u>1/2</u> hp Brand name <u>Coulds</u>
				Was well disinfected upon completion? ☒ Yes ☐ No
				Method of disinfection: <u> bleach </u>
				Driller comments/ disclaimers: _____
				Well driller name: <u>Jeff Ellison</u>
				Company name: <u>Vandehey Well Drilling Pump Serv.</u>
				Mailing address: <u>PO Box 569</u>
				City: <u>Anchorage</u> State: <u>AK</u> Zip <u>99556</u>
				Phone number: <u>(907) 235-8521</u>
				Drillers signature: <u>[Signature]</u>
				Date: <u>2/11/2011</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 ☐

Vandehey Well Drilling and Pump Service

PO Box 569 Anchor Point, AK 99556

(907)235-8821 office 299-2804 cell

Water Test Results February 14, 2011, Horizon Ct; Homer, AK 99603

Scott McEwen

Contaminant or condition:	Test 1:	Test 2:	Action Level:
Nitrates	safe	safe	≥ 10 ppm
Nitrites	safe	safe	≥ 1 ppm
Total Alkalinity	80ppm	80ppm	≥ 180 ppm
pH (7 is ideal)	7	7	< 7 or > 8
Total Hardness	3 ppm	3 ppm	≥ 50 ppm
Iron	0ppm	0ppm	$\geq .3$ ppm
Copper	0ppm	0ppm	≥ 1.3 ppm
Chlorine	0 ppm	0 ppm	any
Bacteria	neg.	neg.	
Pesticide:			
Altrazine	Neg.		≥ 3 ppb
Simazine	Neg.		≥ 4 ppb
Lead	Neg.		≥ 15 ppb
Arsenic	0		≥ 10 ppb