

JAN 13 2011

DIRECTORS OFFICE
ANCHORAGE

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

34020

Drilling Started: 16/12/10, Completed: 20/12/10

City/Borough/ Subdivision/Legal Description <u>Blk 3, Lot 9A</u> <u>Russian Creek, AK Sub</u>		BLOCK <u>3</u>	LOT <u>9A</u>	Property Owner Name & Address: <u>Ronald C. Naughton</u> <u>12216 Noch Drive</u> <u>Kodiak, AK 99615</u>
Meridian <u>5R1</u> Township _____ Range _____ Section _____, _____ 1/4 of _____ 1/4 of _____ 1/4 of _____ 1/4				
BOREHOLE DATA: (<u>from ground surface</u>) Depths Material: Type, Color & wetness From To				Drilling method: <u>Air rotary</u> , Cable tool, Other _____ Well use: Public supply, <u>Domestic</u> , Other _____
<u>overburden</u>	<u>0</u>	<u>12</u>	Depth of hole: <u>200</u> ft, Casing stickup: <u>2</u> ft Casing type: <u>steel</u> Thickness <u>0.25</u> inches Casing diameter: <u>6"</u> inches Casing depth <u>40</u> ft Liner type: <u>PVC</u> Diameter: <u>4.5</u> inches Depth: <u>165</u> ft	
<u>Gravel-mixed shale</u>	<u>12</u>	<u>19</u>	Static water (<u>from top of casing</u>): <u>20</u> ft on <u>12/27/10</u> Pumping level & yield: _____ feet after _____ hours at _____ gpm Recovery rate: <u>1.5</u> gpm, Method of testing: <u>Air + Pump</u> Development method: <u>Air</u> Duration: <u>3 hr</u>	
<u>soft shale</u>	<u>19</u>	<u>31</u>	Well intake opening type: <u>Open end</u> Open hole Screened; Start: <u>N/A</u> ft, Stopped _____ ft Screen type: _____ Slot/mesh size _____ Perforated; Start: _____ ft, Stopped _____ ft Start: _____ ft, Stopped _____ ft	
<u>hard compacted Quartz</u>	<u>31</u>	<u>40</u>	Note: _____	
<u>hard shale mixed Quartz</u>	<u>40</u>	<u>78</u>	Grout type: <u>Portland Cement</u> Volume <u>2 yard*</u> Depth; from <u>0</u> ft, to <u>25 ft</u> ft	
<u>Mixed strata</u>	<u>78</u>	<u>94</u>	Pump intake depth: <u>181</u> ft Pump size <u>3/4</u> hp, Brand name <u>Goulds 105607</u>	
<u>soft shale-Lights</u>	<u>94</u>	<u>123</u>	Was well disinfected upon completion? <u>Yes</u> , No Method of disinfection: <u>Clorox</u>	
<u>black-Hard shale</u>	<u>123</u>	<u>160</u>	Driller comments/ disclaimers: <u>Low recovery, 96% in</u> <u>til in water, Recovers overnite,</u> <u>Low yield,</u> <u>Discolored water due to Particles</u>	
<u>Hard shale/Heavy</u>	<u>160</u>	<u>182</u>	Well driller name: <u>Tom Ashford</u> Company name: <u>Mill Bay Drilling</u> Mailing address: <u>P.O. Box 763</u> City: <u>Kodiak</u> State: <u>AK</u> Zip: <u>99615</u> Phone number: <u>(907) 539-1298</u> Drillers signature: <u>[Signature]</u>	
<u>Black - Coal Bearing</u>	<u>182</u>	<u>191</u>		
<u>Hard Quartz Shale</u>	<u>191</u>	<u>200</u>		
<u>Water Contamin</u>	<u>Silt</u>	<u>+</u>		
<u>Needs good Filter</u>				
<u>System</u>				

Alaska state law requires that a copy of this well log be sent to the Department of Natural Resources within 45 days; faxes are also acceptable. (AK statutes 38.05.020, 38.05.035, 41.08.020, 46.15.020 and AK regulations 11 AAC 93.140).

DNR/ Division of Mining, Land and Water,
550W 7th Avenue
Anchorage, AK 99501-3577
Phone (907)269-8639 and fax (907)269-8947

Within the City of Anchorage, it is **required** that a copy of the well log be sent to the appropriate city office within 60 days and that another copy of the well log be sent to the well/property owner within 30 days.
Permit Number: _____
Date of Issue: _____/_____/_____
Parcel Identification Number: _____-_____
Is well located at approved permit location? Yes or No