

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

WATER WELL LOG Revised 08/18/2016

Drilling Started://		Comple	Completed: _ 5 / 2 / 2013 Pump Install://				
City/Borough	Subdivis	ion	Block	Lot	Property Owner Name & Address		
Municipality of Anchorage					Malaspina Glacier Investments, LLC 4100 Debar Road AK, 99501		
Well location: Latitude 61.207		22211			e -149.79931		
			Section		1/4 of _ <u>NW</u> 1/4 of1/4		
BOREHOLE DATA: (from ground surface) Suggest T.M. Hanna's hydrogeologic classification system* https://my.ngwa.org/NC				Well use:	hod: Air rotary, Cable tool, OtherPublic supply, Domestic, Reinjection, Hydrofracking sial, Observation/Monitoring, Test/Exploratory, Cooling,		
		<u>From</u>	<u>To</u>	☐ Irrigation/	Agriculture, ☐Grounding, ☐Recharge/Aquifer Storage,		
silt			5	☐ Heating, ☐ Geothermal Exploration, ☐ Other			
sandy silt		5	16	Fluids used:			
silty sand wet		16	24	-	ole: 138 ft Casing stickup: 2 ft		
sandy gravelly silt wet		24	120	Casing type: Steel Casing thickness: 0.25 inches Casing diameter: 6 inches Casing depth: 128 ft			
silty water sand and grave	el 50 gpm	120	136	Liner type: Depth: ft Diameter:inches			
silty sand and water		136	138	Note:			
only cana and nate.				Well intake opening type: ☐ Open end, ☐ Open hole, ☐ Other screened			
				Screen type: Stainless Steel, Screen mesh size: 0.14			
				Screen start: 126 ft, Screen stop: 137.5 ft, Perforated Yes No			
					description: Perf from: ft, Perf ft, Perf to: ft		
					ked Yes No Gravel start: ft , Gravel stop: ft		
				I	slott SS from 132-137.5, 0.100 slott SS from 126.5-132		
					r (from top of casing): 43 ft on 5 /2 / 2013 Artesian well		
					vel & yield: 61 feet after 24 hours at 87 gpm		
				Method of to	esting: pump nt method: Duration:		
				Recovery ra	ate: gpm		
					Bentonite Volume 4 bags		
					nft, To <u>20f</u> t		
Include description or sketch of well location (include road names, buildings, etc.):				Final pump	intake depth: ft Model:		
bullulings, ctc.).					hp Brand name:		
					sinfected upon completion? ■ Yes No		
					disinfection: Chlorine tablets		
				Was water	quality tested? Yes No		
				Water quali	ty parameters tested:		
					name: ALPINE DRILLING		
					ress:		
			,1,		State: <u>AK</u> Zip:		
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				Phone num	ber: ()		
				Driller's sigr	nature:		
				Date:			
be submitted using the online well log reporting system available at:					Municipal Code 15.55.060(I) and North Pole Ordinance 13.32.030(D) require		
https://dnr.alaska.gov/welts/				within 30 day	if this well log be submitted to the Development Services Department/City s of well completion.		
OR email electronic well logs to				City Permit N Date of Issue	lumber: e:/		
dnr.water.reports@alaska.gov				Parcel Identif	fication Number:		

Alpine Drilling & Enterprises

Well Log

Permit Number: #SW	Dat	e of Issue:	Parcel Identification Number:		
Date Started: <u>4-30-13</u>	Date Comp	oleted: <u>5-2-13</u>	Is well located at approved permit location? x	Yes No	
Legal Description: Malaspina Glacier Mobile Home Park			4100 Debar Road Well # 3		
Property Owner Name & A	Address:	Malaspina Glacier I	nvestments, LLC		
		1010 Beech Lane			
		Anchoraga Alaska	00501		

		eech Lane ige, Alaska	99501		
Borehole Data:		oth (ft)	Method of Drilling x air rotary able tool		
Soil Type, Thickness & Water Strata	pe, Thickness & Water Strata From To		Casing type: <u>steel</u>		
Stick-up	0	, 2	Wall Thickness: <u>.250</u> inches		
silt	2	7	Diameter: <u>6</u> inches Depth: <u>128</u> feet Liner Type:		
sandy silt	7	18	Diameter: inches Depth: feet		
silty sand wet	18	26	Casing stickup above ground: 2 feet		
sandy gravelly silt wet	26	122	Static water level (from ground level): 43 feet		
silty water sand & gravel 50gpm +	122	138	Pumping level: 61 feet after		
silty sand & water	$\frac{24}{138}$ hours pumping <u>87</u> gpm		Recovery Rate: to 55' in 1 min to 49 in 4 hrs to 43 in 24hrs		
			Well Intake Opening Type: ☐ Open End ☐ Open Hole x Screened Start feet 126.5 Stopped 137.5 feet ☐ Perforations Start feet Stopped feet		
	·		Grout Type: <u>Bentonite</u> Volume: $\underline{4 \ bgs}$ Depth: Start $\underline{0}$ feet Stopped $\underline{20}$ feet		
			Pump: Intake Depth feet Pump size hp Brand Name		
		;	Well Disinfected Upon Completion? x Yes No Method of Disinfection: Chlorine tablets		
			Comments: .014 slot SS from 132-137.5 .100 slot SS from 126.5-132		
			Well Driller: Alpine Drilling & Enterprises PO Box 110496 Anchorage AK 99511		