

## STATE OF ALASKA 45678 DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND & WATER Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Southeast Island REAA NA N	Drilling Starte	ed: <u>9 / 16</u>	/ 2010	Comple	eted: <u>9 / 18 / 2010</u> Pump Install://					
Well location: Latitude	City/Borough	Subdivis	ion	Block	Lot Property Owner Name & Address					
Mendian S	Southeast Island REAA	NA	4		NA Manokotak AK,					
Dilling method:   Air rotary   Dable tool   Other	Well location: LatitudeLongitude									
Sugpest T.M. Hanna's hydrogeologic classification systems   thisses/imv.ngwa.org/NC. Product7id=s18500000869 kubsta3c)   Depth   Dep	Meridian S Towns	hip <u>014S</u> Ran	ge <u>058W</u>	Section						
PEAT   0   5	Suggest T.M. Hanna's hydrogeologic classification system* https://my.ngwa.org/NC				Well use: ■Public supply, ■Domestic, ■Reinjection, ■Hydrofracking					
Fluids used:  GRAVELLY CLAY  9 14  CLAYEY SAND AND GRAVEL  14 20  BEDROCK DARK GRAY  20 200  1			<u>From</u>	<u>To</u>	☐Irrigation/Agriculture,☐Grounding,☐Recharge/Aquifer Storage,					
GRAVELLY CLAY  GLAYEY SAND AND GRAVEL  BEDROCK DARK GRAY  20  200  Liner type: Depth: ft Diameter: inches  Casing thickness: inches  Casing depth: 200  ft Casing depth: 200  tt Diameter: inches  Note:  Well intake opening type: Open end Open hole	PEAT		0	5	Heating, Geothermal Exploration, Other					
Casing type: Casing thickness: inches CALYEY SAND AND GRAVEL	ORGANIC CLAY PEA	Τ	5	9						
CLAYEY SAND AND GRAVEL 14 20 200  BEDROCK DARK GRAY 20 200  Well intake opening type: Open end Open hole _ Other o	GRAVELLY CLAY		9	14	I : : : : : : : : : : : : : : : : : : :					
BEDROCK DARK GRAY 20 200 Liner type: Depth: ft Diameter: inches Note: Note: Depth: ft Diameter: inches Note: Note: Screen mesh size: Screen stop: ft, Perforated Yes No Perforation description: Perf from: ft, Perf to: ft. Perf to: ft. Perf to: ft. Perf to: ft. Perf from: ft. Perf to: ft. Perf from: ft. Perf to: ft. Note: Perforation description: perforation description: ft. Perf to: ft. Perforation description: ft. Note:	CLAYEY SAND AND G	RAVEL	14	20						
Note:  Well intake opening type:Open endOpen holeOther other  Screen type:	BEDROCK DARK GF	RAY	20		I					
Screen type:										
Screen start:ft, Screen stop:ft, Perforated _Yes _No Perforation description:					Well intake opening type: ☐ Open end,☐ Open hole, ☐ Other other					
Perforation description:										
to: _ft, Perf for: _ft Perf to: _ft Gravel start: _ft, Gravel stop:ft Note:    Static water (from top of casing): 16.3 _ft on 9 _/19 _/2010 _Artesian well										
Gravel packed Yes No Gravel start:ft , Gravel stop:ft Note:  Static water (from top of casing): 16.3ft on 9/19 _/2010 Artesian well										
Note:    Static water (from top of casing): 16.3   ft on 9   /19   /2010   Artesian well   Pumping level & yield:   feet after   hours at   gpm   Method of testing:   Development method:   Duration:   Recovery rate:   gpm   Grout type: BENTONITE   Volume   Depth: From 0   ft, To 10   ft   Model:   Pump size:   hp Brand name:     hp Brand name:   Was well disinfected upon completion?   Yes   No   Note:				1						
Pumping level & yield:feet afterhours atgpm   Method of testing:										
Method of testing: Development method:					Static water (from top of casing): 16.3 ft on 9 / 19 / 2010 Artesian well					
Development method:					Pumping level & yield: feet after hours at gpm					
Recovery rate:gpm  Grout type: BENTONITE										
Grout type: BENTONITE										
Final pump intake depth: ft   Model:										
Pump size:										
Pump size:										
Method of disinfection:  Was water quality tested? Yes No  Water quality parameters tested:  Well driller name: Steve.Thomas  Company name: JOHNSON DRILLING CO  Mailing address: 3705 ARCTIC BLVD  City: ANCHORAGE State: AK Zip: 99503  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 submitted using the online well log reporting system available at:  https://dnr.alaska.gov/welts/  OR email electronic well logs to  Method of disinfection:  Was water quality tested? Yes No  Well driller name: Steve.Thomas  Company name: JOHNSON DRILLING CO  Mailing address: 3705 ARCTIC BLVD  City: ANCHORAGE State: AK Zip: 99503  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://										
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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  Well timle Haine: .584**  Company name: JOHNSON DRILLING CO  Mailing address: 3705 ARCTIC BLVD  City: ANCHORAGE State: AK Zip: 99503  Phone number: ()					Water quality rested: Yes INO					
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OR email electronic well logs to  City Permit Number: Date of Issue://	https://dnr.alaska.gov/we	elts/								
					City Permit Number: Date of Issue:/					
	dnr.water.reports@alaska.gov				Parcel Identification Number:					

45678

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

Drilling Started: 09 / 16 / 2010 Completed: 09 / 18 / 2010

	· · · · · · · · · · · · · · · · · · ·			Drilling Started: 09 / 16 / 2010 Completed: 09 / 10 / 2010			
City/Borough:	Subdivision:	BLO	CK Lo	T Property Owner Name & Address:			
Manokotak	,			Old Manokotak, Manokotak, Alaska (OMPW9)			
Meridian Sewa	rd Township 145	Range	58W	Section 15 , 1/4 of 1/4 of 1/4 of 1/4			
BOREHOLE DA Material: Type	ATA: (from ground sur , Color & wetness	ace) De From	oth To	Drilling method:   Air rotary, □ Cable tool □ Other  Well use:   Public supply, □ Domestic, □ Other			
Poat		0.0	5	Depth of hole: 200 ft, Casing stickup: ft			
Organic clay/peat		5	9	Casing type: Thickness inches			
Gravely clay		9	14	Casing diameter: inches Casing depth ft Liner type: none Diameter: inches Depth: ft			
Claycy sand and gravel		14	20	Note:			
BEDROCK, dark gray competent		20	200	Static water (from top of casing): 16.3 ft on 09 / 19 / 2010  Pumping level & yield: feet after hours at gpm			
***************************************			<b>-</b>	Recovery rate: gpm, Method of testing: Development method: Duration:			
				Well intake opening type:   Open end   Open hole, Other w			
WELL ABANDONED ,				Screen type: Slot/mesh size			
	A Committee of the Action of t	7		Perforated; Start: ft, Stopped ft Start: ft, Stopped ft			
	•			Start:ft, Stoppedft			
			<del>,  </del>	_ Graver backed bites wild From ft toft			
The state of the s		-	ļ.,,.,.,	Note:			
	· · · · · · · · · · · · · · · · · · ·			Depth; from ground surface ft, to approx 10 ft			
				Pump intake depth:ft			
				Pump sizehp_Brand.name			
				Was well disinfected upon completion? □ Yes 💥 No  Method of disinfection:			
				Driller comments/ disclaimers: WELL ABANDONED			
			-	Cia Ti			
<del>,</del>	<del></del>	<u> </u>		Well driller name: Steve Thomas  Company name: Johnson Drilling Company			
				Mailing address: 3705 Arctic Blvd., Unit 412			
				City: Anchorage State: AK Zlo 99503			
		1	1	City:         Anchorage         State: AK Zlp 99503           Phone number : ( 907 ) 250 - 5051			
				Drillers signature:			
				Date:/			
forwarded to the	w requires that a copy o Department of Natural stutes 38.05,020, 38,05. AK regulations 11 AAC	Resource	s within 8,020,	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.			
Alaska DNR, Division of Mining, Land and Water, 550 W 7 <sup>th</sup> Avenue, Suite 1020 Anchorage, AK 99501-3562				City Permit Number: Date of Issue:  Parcel Identification Number:			
Phone (907)269-8639 and fax (907)269-8947				Is well located at approved permit location? Yes or No			