

## STATE OF ALASKA 43836 DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND & WATER Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

					1 / 2004 Pump Install://			
City/Borough	Subdivisi	on	Block	Lot	Property Owner Name & Address			
Alaska Gateway REAA					City Of Northway PO BOX 516 AK, 99764			
Well location: Latitude 62.9		0.1.0.5			e -141.948196			
Meridian C Townsh	hip <u>014N</u> Rang	ge <u>018E</u>	Section		1/4 of <u>SE</u> 1/4 of <u>NE</u> 1/4 of <u>NW</u> 1/4			
BOREHOLE DATA: (from g Suggest T.M. Hanna's hydroge https://my.ngwa.org/NC Produ	ologic classific	ation sys		Drilling method: ■Air rotary, □Cable tool, □Other  Well use: ■Public supply, □Domestic, □Reinjection, □Hydrofracking □Commercial, □Observation/Monitoring, □Test/Exploratory, □Cooling,				
		From	<u>To</u>	☐ Irrigation/	Agriculture, ☐Grounding, ☐Recharge/Aquifer Storage,			
FROZEN OVERBURDI	EN	0	5	Heating,	Geothermal Exploration, Other			
SILT CLAY: THAWED		5	9		:			
SILTY CLAY: FROZE	:N	9	68		le: 220 ft Casing stickup: 2 ft			
SILTY SAND: FROZEN		68	85		e: STEEL Casing thickness: 0.25 inches neter: inches Casing depth: 194 ft			
FINE SAND: THAWEI	D, WET	85	118		Depth: ft Diameter:inches			
SANDY GRAVEL: WE		118	137	Note:				
SILTY SAND: WET, F	,	137	180		opening type: Open end, Open hole, Other screened			
FINE WATER SAND: GRAVI			200		e: 304SS, Screen mesh size:			
WATER SAND; GRAVEL			220		t: 194.5 ft, Screen stop: 205 ft, Perforated Yes No description: ft, Perf			
					ft, Perf from: ft, Perf to: ft			
					xed ☐Yes  ■ No Gravel start: ft , Gravel stop: ft			
				Note:				
					(from top of casing): 10.4 ft on 4 /2 / 2004 Artesian well			
				Method of to	vel & yield: 15.7 feet after 4 hours at 50 gpm			
				Developme	nt method: SURGE Duration: 6HR			
					ate: gpm			
					BENTONITE         Volume         13SACKS           n         0         ft         To         To			
Include description or sketch of	well location (inc	lude road	names,		intake depth: ft Model:			
buildings, etc.):					hp Brand name:			
					sinfected upon completion? ■ Yes No			
					lisinfection: CHLORINE			
				Was water	quality tested? Yes No			
				Water quali	ty parameters tested:			
				Well driller	name: Kris Westberg			
					ame: M-W DRILLING ress: PO Box 110378			
			1.		ORAGE State: AK Zip: 99511			
			Noth	Phone num	ber: ()			
AS 41.08.020(b)(4) and AAC 11 copy of the well log be submitte				Driller's sigr	nature:			
Resources within 45 days of w	ell completion.	Well logs		Date:				
be submitted using the online well log reporting system available at:  https://dnr.alaska.gov/welts/				that a copy of	Iunicipal Code 15.55.060(I) and North Pole Ordinance 13.32.030(D) require f this well log be submitted to the Development Services Department/City of well completion.			
				City Permit N	lumber:			
OR email electronic well logs to					lumber: ::/			
dnr.water.reports@alaska.gov				Parcel Identif	ication Number:			

## laiBIT A

## STATE OF ALASKA

DEPARTMENT OF WATURAL RESOURCES MINING, LAND, WATER HYDROLOGIC SURVEY WATER WELL LOG

Drilling Started: 03/23/04, Completed: 04/01/04

City/Borough:	Subdivision/USS:	Block	Lot	Property Owner Name & Address: Northway, City of: P.O. Box 516					
Northway				MOLT WWWS!					
Meridian         Township           Lat: N         Long: W		Range		Section 1/4 of					
BOREHOLE	DATA: (from ground	surface) Depth		Drilling method: Air rotary, Cable tool, Other  Well use: Public supply, Domestic, Other					
Frozen o	verburden	0 5		Depth of hole: 220 ft, Casing stickup: 2 ft  Casing type: A 53 Steel Thickness 0.0250 inches					
silty clay	y: thawed	5	9	Casing diameter: 6518 inches Casing depth 194 ft Liner type: 10 Diameter: inches Depth: ft					
Silty clay	j:frozen	9	68	Static water (from top of casing): 10.5 ft on 04/02/04  Pumping level & yield: 15.75 feet after 4 hours at 50 gpm					
9 iltysan	d: frozen	68	85	Recovery rate:gpm, Method of testing: Development method: SurgeDuration:Duration:					
Fine Savo	Fine sand: thawed, wet		118	Well intake opening type: Open end, Open hole  Screened; Start: 194.5 ft, Stopped 205 ft					
Sandy gravel: wet, 2 gpm		118	137	Screen type: 304 SS Slot/mesh size 0.030"  Perforated; Start: ft, Stopped ft					
Silty sand: wet, heaving		137	180	Start:ft, Stoppedft  Note:					
Fine watersand: gravel streaks		180	200	Grout type: Bentonite Volume 13 Sacks Depth; from \$\overline{1}\$ ft, to 20+ ft					
Water sand: gravelly, clean		200	220	Pump intake depth: ft Pump size hp, Brand name:					
	0,000			Was well disinfected upon completion? (Yes.) No Method of disinfection: fum ped Chlorine, Solution					
				Driller comments/ disclaimers:					
				Well Driller Name: Kris Westberg					
				Company Name: M.W Drilling, Inc.  Mailing Address: P. D. Box 110318					
				City: Anchorage State: A.K Zip: 99511					
		•		Phone Number: 907.345.4000  Drillers Signature:					

State law requires that a copy of this well log be sent to the State of Alaska within 45 days. Faxes are acceptable. (AK statutes 38.05.020, 38.05.035, 41.08.020, 46.15.020 and AK regulations 11 AAC 93.140). DEPARTMENT OF NATURAL RESOURCES

Mining, Land & Water Hydrologic Survey 550 W 7th Ave., Suite 900A Anchorage, AK 99501-3577 Telephone (907) 269-8639 and FAX (907) 562-1384 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

## M-W Drilling, Inc. TEST PUMP REPORT

Sheet \_\_ of \_\_ Date: 04.02.2004

Conducted By: Kris & Wayne Westberg M-W Job No. 04-111	
Addres On Cay File	
Vell Location: Northway Washeteria Well No. 2	
vell information: Total Depth. 206' Depth of Casina: 194' Sensor: Francis 194'	2051
Casina Size: /- " Fance D.	200
Casing Size: 6" Screen Diameter: 6"T Screen Slot: 0.030"SI	not-
Remarks: Sorren Assemblu: Discus V	91
Remarks: Screen Assembly: Riser & K-packer 3', Screen 10.6', Tailpipe & pk	16 1= 145
ump Information: Intake depth: 80' Pump Size: 3 hp Water Level Meas: Electric	110
Water Level Meas.: Electric	
O'UIL WITE IRVELING AND discharges COM	
isc Pump Tofo ! Pump On: Date of the gold of the hinds, drawdown:	
Date of the Date of the Decine All A	
Primp Off: Detailed as at T	
Pump Off: Date: 04.02.04 Time: 13:40 Mtr. Reading: -	

	ne		/ater	Flow		Remarks	T	ime	Wate	r Flow	Remarks	
Clock	Elpsd	L	evel	G	PM		Clock	The second second		,	Kemarks	
09:20	0	16	0.07	5	D_	Pump on	10:35	5	15.89	-		
	.30	15	5.75	_		Waterclear	10:50		15.75			
	1.0	14	.15				11:05					
	1.30	11	1.15				11:20					
	2.0	_					11:35		1	+		
	2.30	_					11:50					
	3.0						12:20			+		
	3.30						12:40					
	4.0						13:10			+		
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9:25	5.0	16	5				13:40	1	-	+ +	0) 1-1	
	6.0			1			1,5,1			1-	Shutdown	
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	8.0							1	10.01		Very fast	
-	9.0				T			.30	10.5			
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1:35	15.0			1								
1:40	20,0			T				2min				
:45 2	50	J		T								
1:50 2	30.0	15.	85	T			Data: s C	N N	0			
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As-k	uilt	- No	ite:	Re	ad	ings correct.	Phone: 729.	- 404	16	Fax:	·W	
+ 2	'ah	oue.	arm		1 1 4	my wires.	Note			Phone:		