

STATE OF ALASKA 83475 DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND & WATER Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Start	ed: <u>7 / 19</u>	/ 2022	Compl	eted: <u>7</u> /_	20 / 2022 Pump Install://		
City/Borough	Subdivis	ion	Block	Lot	Property Owner Name & Address		
Denali Borough					Vitus Energy LLC	7	
Well location: Latitude 63.	8650491000002	00.014			1e -149.0174117		
			Section		E1/4 of <u>SE</u> 1/4 of <u>NE</u> 1/4 of <u>NE</u> 1/4	-	
BOREHOLE DATA: (from (Suggest T.M. Hanna's hydrog			rstom*		<u>thod:</u> ■Air rotary,		
https://my.ngwa.org/NCProduction	uct?id=a1850000	000BYub	<u> 3AAD</u>		cial, Observation/Monitoring, Test/Exploratory, Cool	-	
			epth			ing,	
Stick up		From 0	<u>To</u>	□ Irrigation/Agriculture, □Grounding, □Recharge/Aquifer Storage,			
		4	140	□ Heating, □Geothermal Exploration, □Other			
Gravel, boulders			-	Fluids used:			
Wet gravel, hardpan		140	180	Casing type: <u>Steel A53B</u> Casing thickness: <u>.25</u> inches			
Gravel, water		180	200	Casing dia	meter: <u>6</u> inches Casing depth: <u>188</u> ft		
					Depth: ft Diameter:inches		
				Note:			
					e opening type: Open end, Open hole, Other <u>screer</u> e: Sandscreen, Screen mesh size: <u>020</u>	ied	
					rt: <u>188</u> ft, Screen stop: <u>198</u> ft, Perforated Y e	s No	
					description: Ry Coroch clop: Ry Torrelated		
				to:	_ft, Perf from: ft, Perf to: ft		
				Gravel pac	ked <mark>∏</mark> Yes ■ No_Gravel start: ft , Gravel stop:	ft	
				Note:			
					r (from top of casing): <u>135</u> ft on <u>7 / 20 / 22</u> Ar	tesian well	
					evel & yield: feet after hours at gpm		
				Developme	testing: <u>Air</u> Duration: <u>4</u>		
				Recovery r	rate: <u>30</u> gpm		
				Grout type:	Well seal Volume 14 bags		
la de de serie l'este en electele ef					m <u>0</u> ft, To <u>20</u> f	-	
Include description or sketch of buildings, etc.):	well location (ind	ciude roa	d names,		o intake depth: ft Model:	-	
					: hp Brand name:		
					isinfected upon completion? Yes INO		
				Was water	quality tested? Yes No		
				Well driller	ity parameters tested:		
					name: Clearwater Wells, LLC		
				Mailing add	dress: 6830 E Green Glen Dr.		
			Noth	City: Wasill	aState: <u>AK</u> Zip: <u>99654</u> hber: (<u>907</u>) <u>795</u> - <u>2531</u>		
	4 4 4 0 00 4 40/-		th at a	Phone num	nber: (<u>907</u>) <u>795</u> - <u>2531</u>		
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				Driller's sig	nature:		
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/			s may	Date:	// Municipal Code 15.55.060(I) and North Pole Ordinance 13.32.030		
				Anchorage N	Municipal Code 15.55.060(I) and North Pole Ordinance 13.32.030 of this well log be submitted to the Development Services Departr	(D) require	
					ys of well completion.	none Ony	
nups.//unr.alaska.guv/weits/				City Permit N	Number:		
OR email electronic well logs to				City Permit Number: Date of Issue://			
dnr.water.reports@alask	a.gov			Parcel Identi	ification Number:		

*Guide for Using the Hydrogeologic Classification System for Logging Water Well Boreholes by Thomas M. Hanna NGWA Press





Log

6830 E Green Glen Dr. Wasilla, AK 99654 Phone: 907-795-2531 E-mail: carin@akclearwaterwells.com www.alaskaclearwaterwells.com

Date Started: 7/19/22 Date Co	ompleted:	7/20/22	Pump Installation Log Only:			
Legal Description: Vitus Energy Healy T	erminal		Borough: Mat-Su			
Site Address: Mile 248.5 Parks Hwy.						
Property Owner: Vitus Energy LLC			Owner Address:			
Latitude: <u>63.865246</u> Longitud	le: <u>-149.016</u>	838	Meridian: <u>Seward</u> T:R:Section:			
Borehole Data:Depth (ft)Soil Type, Thickness & Water StrataFrom To			Method of Drilling ✓ air rotary □ cable tool Casing type:			
Stick up	0	4	Wall Thickness: <u>25</u>			
Gravel, boulders	4	140	Diameter: <u>6</u> inches Casing Depth: <u>188</u> Liner Type: Diameter: inches			
Wet gravel, hardpan	140	180	Liner Start: feet Stop: feet			
Gravel, water	180	200	Casing stickup above ground: <u>4</u> feet			
			Static water level (from top of casing): <u>116</u> feet Pumping Level and Yield: Artesian Well feet afterhours pumping Recovery Rate: 30 gpm			
10 in. over bore 20 ft. from			Development Method: Air			
surface filled with bentonite			Duration: 4 hours			
well seal grout			Well Intake Opening Type: □ Open End □ Open Hole ✓ Screened Type: .020 slot sandscreen Start 188 feet Start 188 feet Start 188 feet Start 198 feet Gravel Packed: Yes No			
			Grout Type: <u>Well seal</u> Volume: <u>14 bags</u> Depth: <u>20'</u> Start <u>0</u> feet Stopped 20' feet			
			Well Disinfected Upon Completion? Yes Vo Method of Disinfection:			
Well Pump Installation: Pump Intake DBrand: FranklinModel: 10FRD1Size: 1HP 10Drop Pipe Type: PVCDrop Pipe Size: 1	P4-3W23		Comments: Well was developed by air jetting and surging. Driller/Installer: Frank Meyer Signed: Date: 07/21/22			
Comments:						
Installer: Frank Meyer Da	ate: 10/01/2	2022				

OFFICIAL FLOW TEST

Clearwater Wells, LLC 6830 E. Green Glen Dr. Wasilla, AK 99654 907-795-2531 <u>carin@akclearwaterwells.com</u>

Requestor:	Vitus Energy LLC
Phone:	Doug Peoples 907-529-9708
E-mail:	doug.peoples@vitusmarine.com
Legal Address:	Vitus Energy Healy Terminal
Site Address:	Mile 248.5 Parks Hwy, Healy

	INTERVAL	TIME	WATER LEVEL (ft.)*	FLOW (gpm)	REMARKS
1	30-second	11:35:00 AM	116'6"	15	Start test
2	30-second	11:35:30 AM	117'2"	15	
3	30-second	11:36:00 AM	117'2"	15	
4	30-second	11:36:30 AM	117'2"	15	
5	30-second	11:37:00 AM	117'2"	15	
6	30-second	11:37:30 AM	117'2"	15	
7	30-second	11:38:00 AM	117'2"	15	
8	30-second	11:38:30 AM	117'2"	15	
9	30-second	11:39:00 AM	117'2"	15	
10	30-second	11:39:30 AM	117'2"	15	
11	1-minute	11:40:00 AM	117'2"	15	
12	1-minute	11:41:00 AM	117'2"	15	
13	1-minute	11:42:00 AM	117'2"	15	
14	1-minute	11:43:00 AM	117'2"	15	
15	1-minute	11:44:00 AM	117'2"	15	
16	10-minute	11:45:00 AM	117'2"	15	
17	10-minute	11:55:00 AM	117'3"	15	-
18	10-minute	12:05:00 PM	117'3"	15	
19	10-minute	12:15:00 PM	117'3"	15	-
20	10-minute	12:25:00 PM	117'3"	15	
21	10-minute	12:35:00 PM	117'3"	15	
22	20-minute	12:55:00 PM	117'4"	15	1-hour mark
23	20-minute	1:15:00 PM	117'4"	15	
24	20-minute	1:35:00 PM	117'4"	15	2-hour mark
25	20-minute	1:55:00 PM	117'4"	15	
26	40-minute	2:35:00 PM	117'4"	15	3-hour mark
27	40-minute	3:15:00 PM	117'4"	15	
28	40-minute	3:55:00 PM	117'4"	15	4-hour mark was at 3:35 pm
29	40-minute	4:35:00 PM	117'5"	15	5-hour mark
30	Last hour	5:35:00 PM	117'5"	15	Turn off pump
31		5:36:00 PM	116'6"	15	One minute to return to static

Remarks:

Remarks.	Total drawdown was 11". Full recovery within 1 minute when pump was turned off.					
Tested By:	Frank Meyer, Driller/President, Clearwater Wells, 907-355-3183					
Signature:		LLS				
Test Date:	10 2 2 み 6830 E. Green Glen Wasilla, AK 99654	Dr.				