



STATE OF ALASKA 95
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started: ___/___/___ Completed: ___/___/___ Pump Install: ___/___/___

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Municipality of Anchorage				IRA WALKER ,

Well location: Latitude 61.210976000000045 Longitude -149.777668
Meridian S Township 013N Range 003W Section 14 , NW 1/4 of SW 1/4 of SW 1/4 of SW 1/4

BOREHOLE DATA: (from ground surface)

Suggest T.M. Hanna's hydrogeologic classification system*
https://my.ngwa.org/NC_Product?id=a185000000BYub3AAD

	Depth	
	From	To
Silt, "Pete", clay, rocks & gravel	0	3
Rocky & (hardpan)	3	19
Very hard packed sand, gravel and some rock	19	27
Hard packed sand, gravel and some rock	27	60
Very hard packed sand, gravel with some clay	60	69
Very hard packed sand, some gravel and clay	69	87
Small boulders, very hard packed sand, gravel	87	108
Small boulders & rocks, hard packed sand, gravel & some clay	108	126
Small boulders, packed sand, gravel & clay	126	132
Unknown	132	138
Small boulders, medium coarse sand & gravel w/ some water.	138	139
Small boulders, medium coarse sand and gravel, very little clay, some water	139	177
Streak of tight clay	177	179
Sand, gravel & some small rock, w/ small amount of water	179	181
Hard packed sand, gravel w/ clay	181	188
Medium packed sand, gravel w/ some clay	188	196
Coarse sand and gravel, water bearing formation	196	202

Include description or sketch of well location (include road names, buildings, etc.):

Drilling method: ☒ Air rotary, ☐ Cable tool, ☐ Other _____
Well use: ☒ Public supply, ☐ Domestic, ☐ Reinjection, ☐ Hydrofracking
☐ Commercial, ☐ Observation/Monitoring, ☐ Test/Exploratory, ☐ Cooling,
☐ Irrigation/Agriculture, ☐ Grounding, ☐ Recharge/Aquifer Storage,
☐ Heating, ☐ Geothermal Exploration, ☐ Other _____

Fluids used: _____

Depth of hole: 202 ft Casing stickup: _____ ft

Casing type: _____ Casing thickness: _____ inches

Casing diameter: _____ inches Casing depth: 196 ft

Liner type: _____ Depth: _____ ft Diameter: _____ inches

Note: CASE TO 196 FT, SCREEN TO 202 FT

Well intake opening type: ☐ Open end, ☐ Open hole, ☒ Other _____

Screen type: _____, Screen mesh size: _____

Screen start: _____ ft, Screen stop: _____ ft, Perforated ☐ Yes ☒ No

Perforation description: _____ Perf from: _____ ft, Perf

to: _____ ft, Perf from: _____ ft, Perf to: _____ ft

Gravel packed ☒ Yes ☐ No Gravel start: _____ ft, Gravel stop: _____ ft

Note: _____

Static water (from top of casing): 39 ft on ___/___/___ Artesian well ☐

Pumping level & yield: _____ feet after _____ hours at 275 gpm

Method of testing: _____

Development method: _____ Duration: _____

Recovery rate: _____ gpm

Grout type: _____ Volume _____

Depth: From _____ ft, To _____ ft

Final pump intake depth: _____ ft Model: _____

Pump size: _____ hp Brand name: _____

Was well disinfected upon completion? ☐ Yes ☒ No

Method of disinfection: _____

Was water quality tested? ☐ Yes ☒ No

Water quality parameters tested: _____

Well driller name: Herbert Johnson

Company name: JOHNSON DRILLING

Mailing address: 2207 McRae Road

City: Spenard State: AK Zip: _____

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: ___/___/___

Parcel Identification Number: _____ - _____ - _____

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

dnr.water.reports@alaska.gov

44951

SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 14, T13N,
R3W, Seward Meridian

Drilling Log

Owner - Ira E. Walker Location - _____
Date Started - _____ Completed - _____
Hole Diameter - 8 inch Casing Record - 201 ft. of 8 inch
Perforations - none Screens - none
Casing above Ground - 6 ft. of 8 inch Drive Shoe - 8 inch i.d.
Water Horizons - 132 ft. 6 inches to 188 ft. small amount of water
195 ft. 50 GPM., 201 ft. 6 inches 275 GPM.
Production - 275 GPM. Drawdown - 109 ft. SWL @ 39 ft.
Specific Capacity - _____ GPM. Quality of Water - Excellent
Drillers - Herb Johnson. George H. Provine.

#####

DEPTH	FORMATIONS
0 3	Silt, "Pete", Clay, Rocks & Gravel.
3 19	Rocks & "Hardpan".
19 27	Very hard packed Sand, Gravel & some Rock.
27 50	Hard packed Sand, Gravel & some Rock.
60 69	Very hard packed Sand, Gravel with some Clay.
69 88	Very hard packed Sand, Some Gravel & Clay.
87 108	Small Boulders, Very hard packed Sand & Gravel.
108 126	Small Boulders & Rocks, Hard packed Sand, Gravel & some Clay.
126 132	Small Boulders, Packed Sand, Gravel & Clay.
132 139	Small Boulders, Medium course Sand & Gravel (some Water).
139 177	Small Boulders, Medium course Sand and Gravel, Very little Clay, (some water).
177 179	Streak of tight Clay.
179 181	Sand, Gravel & some small rock, (small amount of Water).
181 188	Hard packed Sand, Gravel with Clay.
188 196	Medium packed Sand, Gravel with some Clay.
196 201'6"	Course Sand and Gravel, (water bearing formation, Lots of Water).
201'6"	-Total Depth of Drilled Well.....

Johnson Drilling Company

Herbert Johnson

SB 13-3-14 CC

JOHNSON DRILLING COMPANY
2208 McRae Road
Spenard, Alaska

CASING RECORD

- Ira E. Walker

LOCATION-

Started-

Completed- July 29, 1965

Casing Diameter - 8 inch i.d., 28.00 #/ft., electric welded joints.

Perforations - none

Screens- none

Drive Shoe - 8" i.d. (Texas type) Riser above ground- 6 ft. 8 in.

<u>Joint No.</u>	<u>Joint Length</u>	<u>Depth</u>
1	12 ft. 2 in.	12 ft. 2 in.
2	7 ft. 0 in.	19 ft. 2 in.
3	7 ft. 9 in.	26 ft. 11 in.
4	10 ft. 0 in.	36 ft. 11 in.
5	8 ft. 0 in.	44 ft. 11 in.
6	8 ft. 0 in.	52 ft. 11 in.
7	7 ft. 0 in.	59 ft. 11 in.
8	9 ft. 6 in.	69 ft. 4 in.
9	7 ft. 0 in.	76 ft. 4 in.
10	10 ft. 6 in.	86 ft. 10 in.
11	10 ft. 7 in.	97 ft. 5 in.
12	10 ft. 6 in.	107 ft. 11 in.
13	7 ft. 0 in.	114 ft. 11 in.
14	10 ft. 7 in.	125 ft. 6 in.
15	7 ft. 0 in.	132 ft. 6 in.
16	7 ft. 0 in.	139 ft. 6 in.
17	7 ft. 0 in.	146 ft. 6 in.
18	7 ft. 0 in.	153 ft. 6 in.
19	7 ft. 0 in.	160 ft. 6 in.
20	7 ft. 0 in.	167 ft. 6 in.
21	7 ft. 0 in.	174 ft. 6 in.
22	7 ft. 0 in.	181 ft. 6 in.
23	7 ft. 0 in.	188 ft. 6 in.
24	7 ft. 0 in.	195 ft. 6 in.
25	6 ft. 0 in.	201 ft. 6 in.

..... Total depth of drilled and cased well - 201 ft. 6 in.

Johnson Drilling Company

Robert J. Johnson

JOHNSON DRILLING COMPANY
2207 McRae Road
Spenard, Alaska

- Production Test -

Depth of Well - 201 ft. 6 in. Static Water Level - 39 ft.
Pump set @ 161 feet. 3 inch orifice; 4 inch pipe.

ORIFICE (INCHES)	G.P.M.	AIRLINE P.S.I.	WATER LEVEL	DRAW- DOWN	REMARKS *-	
02:30	7.5	119	47	108.57	69.57	water cloudy.
02:00	8.0	122	47	108.57	69.57	water clear w/ very small amount of ss.
02:30	7.5	119	47	108.57	69.57	water very clear.
02:38						Shut down to check recovery; full recovery to 39 ft. in 7 mins.
02:45	-	-	16.50	39.00	-	Start Pump.
03:00	7.5	119	47	108.57	69.57	Water Clear.
03:30	7.5	119	47	108.57	69.57	Water very Clear.
04:00	12.0	146	50	115.80	76.50	" " "
04:05	15.5	149	51	117.81	78.81	" " "
04:07	13.5	154	51.98	120.00	81.00	" " "
04:10	13.0	151	55.44	128.00	89.00	" " "
04:15	13.0	151	55.44	128.00	89.00	" " "
04:30	14.5	169	57.00	131.00	92.00	# " "
04:45	14.5	159	57.00	131.00	92.00	" " "
04:58	-	-	-	-	-	" " "
						Shut down to check recovery.
04:59	-	-	30.00	69.30	30.30	
05:00	-	-	24.00	55.44	16.44	
05:01	-	-	21.00	48.51	9.51	
05:02	-	-	20.00	46.20	7.20	
05:03	-	-	19.00	43.89	4.89	
05:04	-	-	19.00	43.89	4.89	
05:15	-	-	18.00	41.58	2.58	
05:17	-	-	17.00	39.27	.27	
						Full Recovery in 19 mins.
						(Fuel & lube power & pump.)
05:50	5.0	100	35.00	80.85	41.85	Water Clear.
05:45	15.5	164	58.00	133.98	94.98	" " ; very little trace of ss.
06:00	17.5	175	59.00	136.29	97.29	Water Clear.
06:16	17.5	175	59.00	138.60	99.60	Water Clear.
06:30	17.5	175	60.00	138.60	99.60	Water very Clear.
06:45	17.5	175	60.00	138.60	99.60	" " "
07:00	23.0	201	64.00	147.84	108.84	" " "
07:30	35.0	250	65.00	150.15	111.15	" " "
08:00	43.0	275	66.00	152.46	113.46	" " "
08:50	16.5	170	58.50	135.00	96.00	Slowed pump; Water Clear
08:35 Shut down PumpEND OF TEST.....					

Johnson Drilling Company

Herbert Johnson