3040

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

WATER WELL LOG Revised 08/18/2016

Drilling Started: ___/___/_____ Completed: 11 / 30 / 1982 Pump Install: ___/___/_____

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Municipality of Anchorage	SPRING FOREST			Spring Forest Homeowners Association ,

Well location: Latitude 61.1279411 **Longitude** -149.773392
Meridian S Township 012N Range 003W Section 14 , NW 1/4 of SW 1/4 of NW 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
Black topsoil	0	4
Tan gravel with clay and silt	4	48
Tan gravel with water	48	62
Gray silty gravel - damp	62	91
Gray gravel with water - 10gpm	91	96
Gray gravel with silty and clay - damp	96	130
Gray silty gravel	130	179
Brown gravel with water - 3gpm	179	193
Brown silty gravel	193	219
Brown gravel with water - 25gpm	219	234
Brown silty gravel	234	236
Brown gravel with water - 25gpm	236	241
Brown silty gravel	241	258
Brown gravel with water - 5-15gpm	258	273
Brown gravel with water - 30gpm, open end	273	304
Brown silty clay and gravel	304	308

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

North

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: 308 ft Casing stickup: 2 ft
Casing type: A53B Steel Casing thickness: .25 inches
Casing diameter: 6 inches Casing depth: _____ ft
Liner type: _____ Depth: _____ ft Diameter: _____ inches
Note: _____

Well intake opening type: ☐ Open end, ☐ Open hole, ☒ Other screened
Screen type: _____, Screen mesh size: _____
Screen start: _____ ft, Screen stop: _____ ft, Perforated ☒ Yes ☐ No
Perforation description: _____ Perf from: 224 ft, Perf
to: 244 ft, Perf from: _____ ft, Perf to: _____ ft
Gravel packed ☒ Yes ☐ No Gravel start: _____ ft , Gravel stop: _____ ft
Note: _____

Static water (from top of casing): _____ ft on ___/___/_____ Artesian well ☐
Pumping level & yield: _____ feet after _____ hours at 105 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: Wayne Westberg
Company name: M-W DRILLING
Mailing address: PO BOX 110378
City: ANCHORAGE State: AK Zip: 99511
Phone number: (907) 945 - 3287
Driller's signature: _____
Date: _____/_____/_____

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

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: _____-_____-_____

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

3040

M-W DRILLING, Inc.
P.O. Box 10-378 • 10300 Old Seward Highway
(907) 349-8535
ANCHORAGE, ALASKA 99511

WELTS ID 3040

DRILLING LOG

Well Owner Spring Forest Homeowners Assn. Joseph P. Cange Use of Well ~~Commercial~~

Location (address of: Township, Range, Section, if known; or distance main road

Tract ~~X~~ C Spring Forest Subdivision (Corner Birch Road & Craig Street)
↑typo T2N R3W Sec 14

Size of casing 6" Depth of Hole 310 feet Cased to 285 feet

Static water level 138 ft. ~~(above)~~ (below) land surface. Finish of well (check one) open end ( ); Screen (X); Perforated ( ).

Describe screen or perforation 150 Slot Screen 278'-304.5'

Well pumping test at 105 gallons per ~~(hour)~~ (minute) for 21 hours with 34.2 ft. of drawdown from static level.

Date of completion November 30, 1982

LAS 3844

WELL LOG

Depth in feet from ground surface	Give details of formations penetrated, size of material, color and hardness
0 TO 2	Casing Stick-up
2 TO 6	Black Topsoil
6 TO 50	Tan Gravel W/Clay & Silt
50 TO 64	Tan Gravel W/Water
64 TO 93	Grey Silty Gravel - Damp
93 TO 98	Grey Gravel W/Water - 10 Gpm
98 TO 132	Grey Gravel W/Silty & Clay - Damp
132 TO 181	Grey Silty Gravel
181 TO 195	Brown Gravel w/Water - 3 Gpm
195 TO 221	Brown Silty Gravel
221 TO 236	Brown Gravel w/Water - 25 Gpm
236 TO 238	Brown Silty Gravel
238 TO 243	Brown Gravel w/Water - 25 Gpm
243 TO 260	Brown Silty Gravel
260 TO 275	Brown Gravel w/Water - 5-15 Gpm
275 TO 306	Brown Gravel w/Water - 30 Gpm, OPEN END
306 TO 310	Brown Silty Clay & Gravel

Wayne E. Mathes
NWWA Certified Contractor
Certificate No's. 814 & [illegible]

SITE ID

LOCAL NO. SB 12-3-14 CBB

2010

M-W DRILLING, Inc.
P.O. Box 10-378 • 10300 Old Seward Highway
(907) 349-8535
ANCHORAGE, ALASKA 99511

DRILLING LOG

Well Owner Joseph P. Cange Use of Well Commercial

Location (address of: Township, Range, Seetion, if known; or distance main road
Tract A, Spring Forest Subdivision (Corner Birch Road & Craig Street)

Size of casing 6" Depth of Hole 310 feet Cased to 285 feet

Static water level ~~138~~ 121 ft. ~~(above)~~ (below) land surface. Finish of well (check one) open end ( ); Screen (X); Perforated (X).

Describe screen or perforation ~~150 Slot Screen 278'-304.5'~~ Perf-4rows 224-244

Well pumping test at ~~105~~ 150 gallons per ~~(hour)~~ (minute) for ~~2~~ 1/2 hours with ~~34.2~~ 30 ft. of drawdown from static level.

Date of ~~completion~~ Perforation 7/10/10 November 30, 1982

WELL LOG

Depth in feet from ground surface	Give details of formations penetrated, size of material, color and hardness
0 TO 2	Casing Stick-up
2 TO 6	Black Topsoil
6 TO 50	Tan Gravel W/Clay & Silt
50 TO 64	Tan Gravel W/Water
64 TO 93	Grey Silty Gravel - Damp
93 TO 98	Grey Gravel W/Water - 10 Gpm
98 TO 132	Grey Gravel W/Silty & Clay - Damp
132 TO 181	Grey Silty Gravel
181 TO 195	Brown Gravel w/Water - 3 Gpm
195 TO 221	Brown Silty Gravel
221 TO 236	Brown Gravel w/Water - 25 Gpm
236 TO 238	Brown Silty Gravel
238 TO 243	Brown Gravel w/Water - 25 Gpm
243 TO 260	Brown Silty Gravel
260 TO 275	Brown Gravel w/Water - 5-15 Gpm
275 TO 306	Brown Gravel w/Water - 30 Gpm, OPEN END
306 TO 310	

Note: June 2010 Csg. apparently rusted thru @ 276'± & screen filled with sand & gravel - per video Insp. Pump dropped during removal - destroyed top of screen. Filled w/bentonite chips to 265'± Perforate 4 rows 224 to 244'. Production of new completion similar to original.

Bill Kramich
Northern Utility Svcs.

1—CUSTOMER

M-W Drilling, Inc.

♦P.O. Box 110389♦Anchorage, AK 99511♦
♦907-345-4000 ♦ 907-345-3287 Fax♦

Job No. ORIG: 82-221
NEW: 10-126

82-221 Amended Upgrade
Re-do under 10-126

GROUNDWATER WELL AS-BUILT & LOG

Well Owner: Spring Forest Homeowners Assoc. Use of Well: Class A Public
Legal Description: Tract A, Spring Forest Subdivision (Corner Birch Road & Craig Street)
Anchorage, AK 5920 West Tree

CONSTRUCTION

Drill Method: N/A Hole Size & Depth: 310'
Casing Size: 6" Cased to: 285' Material: A53 Steel Wall: 0.250"
Well Completion: Open end Screen X Perforated X Method: Downhole wheel perforator
Screen/Perforation description: 150 Slot Screen 278' - 304.5' 7/10/10: Perf'd 4 rows 224' - 244', slots
Backfilled with chips to 271'; test pumped 150 GPM w/40' drawdown from static of 121'
Grout Notes: (5) Sack(s) of Bentonite chips - ¾" minus
Well Development: Airlift - 1 hour; well is clean
Well Disinfected: Y Method: Circulated clorox
Yield test at 150 GPM for 2 hour(s) with 40' of drawdown (DD) from static level(SWL).
Method: Submersible Static Water Level (SWL): 121
Start Date: 6/29/10 Completion Date: 7/19/10
Test Pump Date: 7/10/10 Final Pump Install Date: 7/20/10

WELL LOG

Depth in feet from top of casing.			Details of formations penetrated, size of material, color and miscellaneous details.
0	TO	2	Casing Stick Up
2	TO	6	Black Topsoil
6	TO	50	Tan Gravel w/Clay & Silt
50	TO	64	Tan Gravel w/Water
64	TO	93	Gray Silty Gravel - Damp
93	TO	98	Gray Gravel w/Water - 10 GPM
98	TO	132	Gray Gravel w/Silty & Clay - Damp
132	TO	181	Gray Silty Gravel
181	TO	195	Brown Gravel w/Water - 3 GPM
195	TO	221	Brown Silty Gravel
221	TO	236	Brown Gravel w/Water - 25 GPM
236	TO	238	Brown Silty Gravel
238	TO	243	Brown Gravel w/Water - 25 GPM
243	TO	260	Brown Silty Gravel
260	TO	275	Brown Gravel w/Water - 5-15 GPM
275		306	Brown Gravel w/Water - 30 GPM, Open End
306	TO	310	Brown Silty Clay & Gravel

WAYNE E. WESTBERG
President, M-W Drilling, Inc.
NGWA Certified Master Groundwater Contractor
Ak Gen Contr Lic No 1000

3-24-89

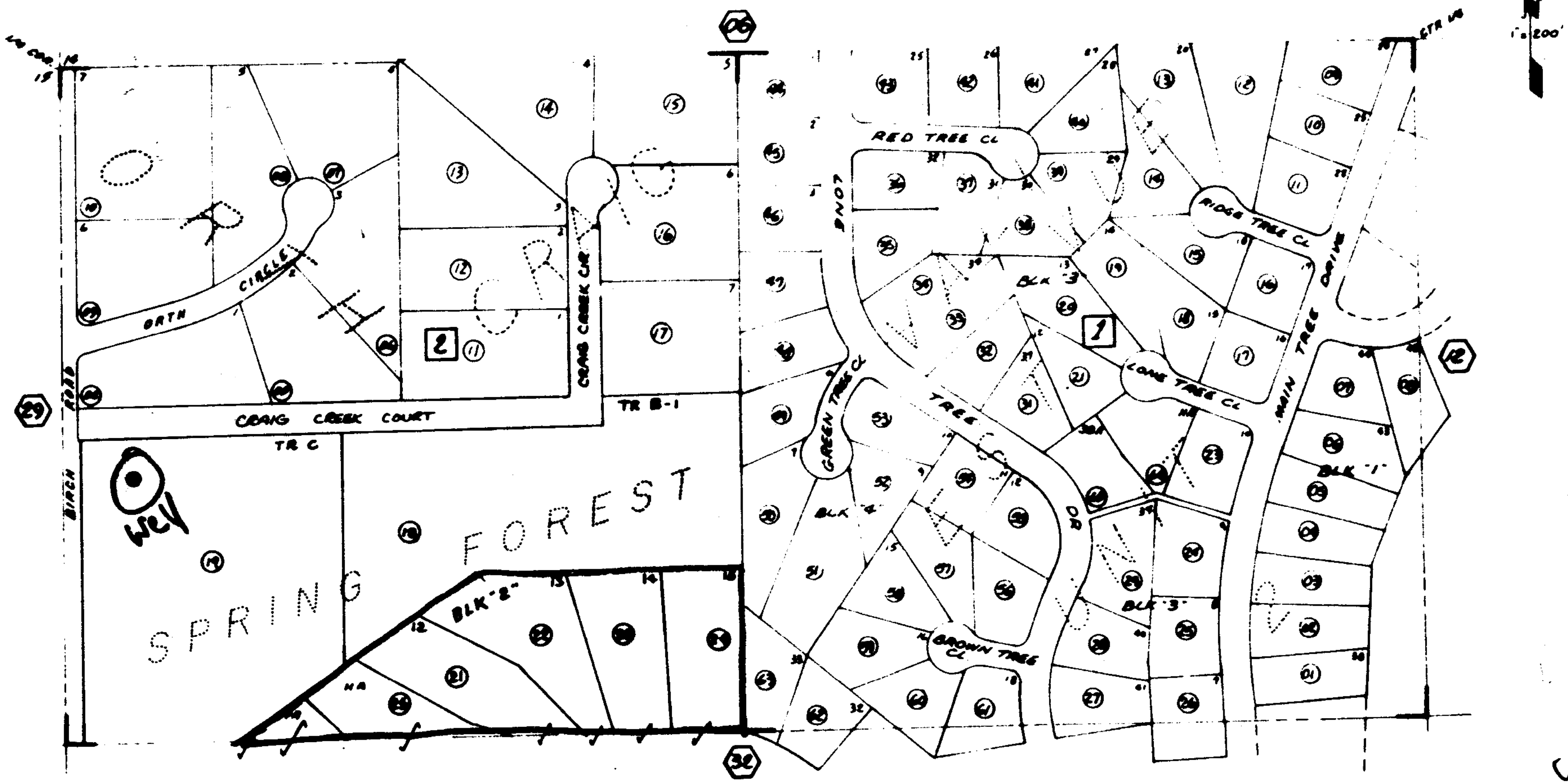
NW4 SW4 NW4 SW4, Sec. 14, T. 12N., R3W., S.M.

Date Compiled Revised

Tax Area Code 015-34

Grid 2538

SUBDIVIDED LAND & N 1/2 SW 1/4, SEC. 14, T12N, R3W, S.M.



Adjoining Page No.

Adjoining Tax Book No.

Assessor's Parcel No.

Assessor's Block No.

Assessor's Map Bk. 015 Pg. 34

3040

015-321-22 & 23 & 015-342-20 now 015-321-30 & 015-342-25 (85-429) 10-26-85
015-321-04 now 015-321-05 & 09 & 015-342-18 & 24 (83-7) 8-1-83
015-342-02 now 015-342-11 thru 17 10-24-77
015-342-03 now 015-321-03 & 06 10-20-76
015-341-22 & 30 now 015-341-68 & 69 9-9-75
015-342-01 now 015-342-04 thru 10 8-12-76

3-17-89

SB12-3-14 CBCB