34749

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: 6 / 23 / 2000 Pump Install: ___/___/_____

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Matanuska-Susitna Borough				CITY OF WASILLA, BUMPUS BALLFIELDS ,

Well location: Latitude 61.59088400000002 **Longitude** -149.496406
Meridian S Township 017N Range 001W Section 05 , SE 1/4 of NE 1/4 of NE 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	Depth To
silt. brown overlain with forest litter and organic material	0	2
sand gravel with some silt. occasional cobbles. brown	2	10
sandy gravel with trace silt, numerous cobbles. brown	10	16
sandy gravel with trace-some silt. numerous cobbles. brown	16	55
silt with trace-some sand. gray. hard	55	85
gravelly sand with some silt. gray	85	100
silt. gray. hard	100	102
gravelly sand with some silt. occasional cobbles. gray	102	115
gravelly fine-medium sand. gray. saturated	115	119
sandy gravel with trace silt. gray. saturated	119	125
sandy gravel with some silt. gray	125	130
gravelly sand with some silt. gray	130	135
fine-medium sand with some silt. gray	135	143
sandy gravel with trace silt. occasional cobbles. gray	143	162
sand and siltstone fragments. brown	162	164
siltstone bedrock. dark brown	164	170
sandstone bedrock. gray	170	176

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: 178 ft Casing stickup: 3 ft
Casing type: _____ Casing thickness: _____ inches
Casing diameter: 8 inches Casing depth: 152 ft
Liner type: _____ Depth: _____ ft Diameter: _____ inches
Note: CASE TO 152 FT, SCREEN ASSEMBLY TO 164 FT

Well intake opening type: ☐ Open end, ☐ Open hole, ☒ Other screened
Screen type: _____, Screen mesh size: .1
Screen start: 152.4 ft, Screen stop: 163 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): 72.3 ft on ___/___/_____ 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 20 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**.

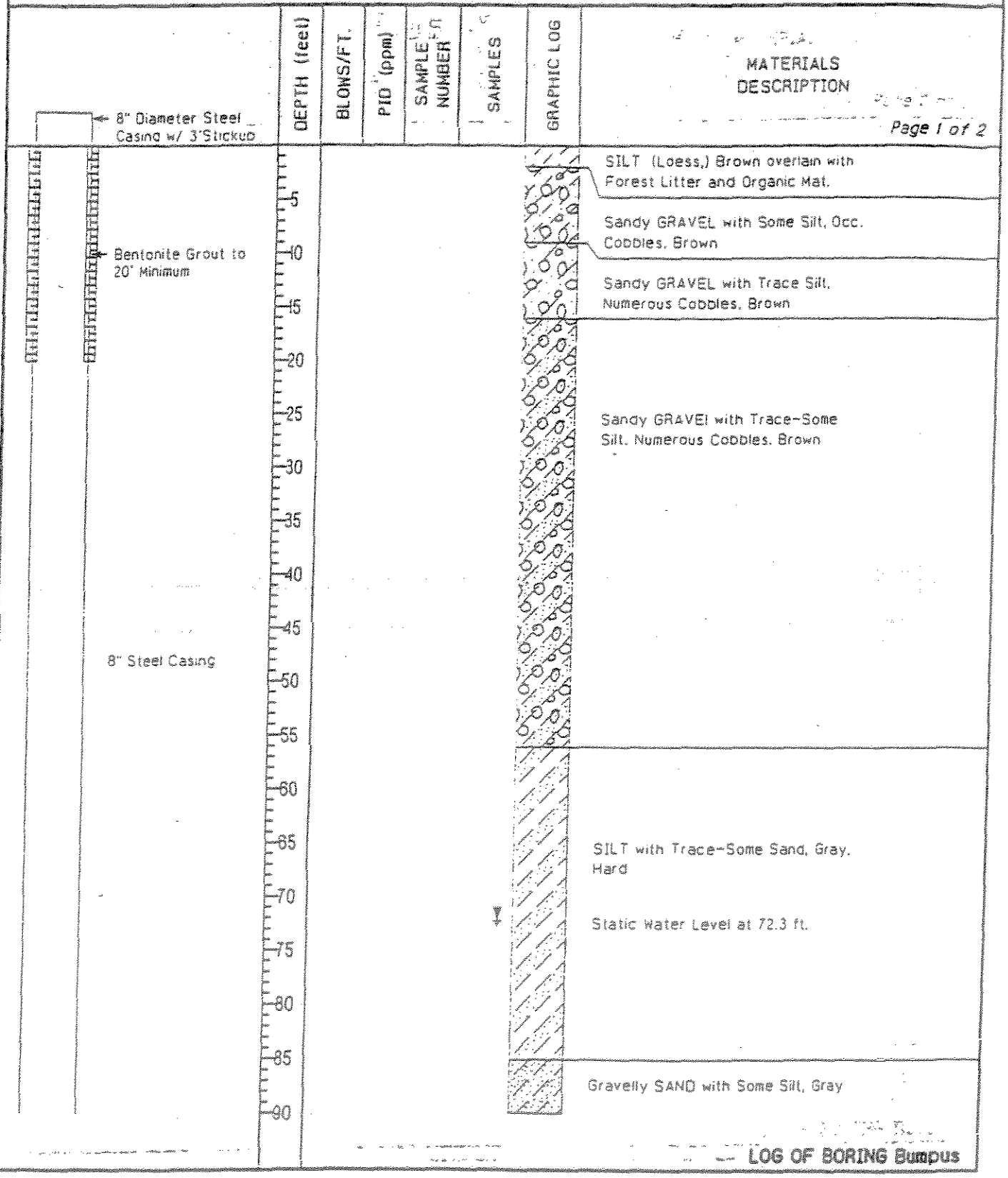
City Permit Number: _____
Date of Issue: ___/___/_____

Parcel Identification Number: _____-_____-_____

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

GILFILIAN ENGINEERING & ENVIRONMENTAL TESTING, INC.

LOG OF BORING Bumpus



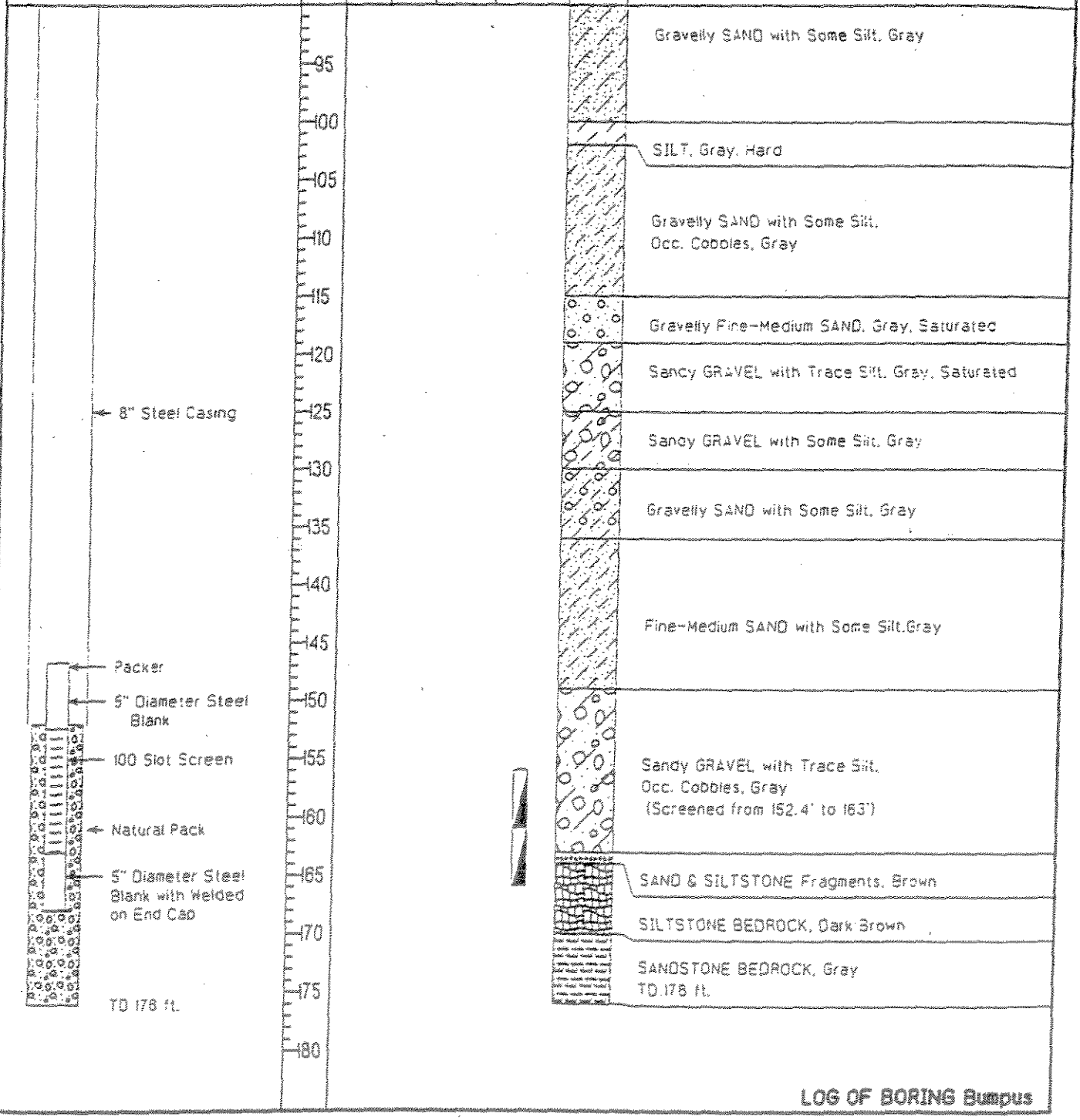
LOG OF BORING Bumpus

PROJECT Bumpus Well #2
LOCATION Bumpus Ball Field
JOB NUMBER 00004:1

DRILLING COMPANY H&W Drilling
DATE DRILLED June 22-23, 2000
SURFACE ELEVATION 435 Ft

GILFILIAN ENGINEERING &
ENVIRONMENTAL TESTING, INC.

LOG OF BORING Bumpus



LOG OF BORING Bumpus

PROJECT Bumpus Well #2
LOCATION Bumpus Ball Field
JOB NUMBER 00004:1

DRILLING COMPANY M&W Drilling
DATE DRILLED June 22-23, 2000
SURFACE ELEVATION 435 Ft

FLOW TEST BUMPUS WELL #2

Pump test log by Steve Rebillard with Gilfillan Engineering & Environmenati Testing, Inc.

Well Location: MSB Tax Parcel B4, Section 5, T17N, R1W, Seware
Well Owner: City of Wasilla

Start Test: July 14, 2000
Time: 1538

Stop Test: July 14, 2000
Time: 1900

Test Well Information Total Depth: 165.8 ft.
Diameter: 8 in.
Pump Depth: 152 ft.
Stickup: 2.8 ft.
Datum: Top of Well Casing
SWL 72.3 ft.
Top of Well Screen 146.7 ft.

Flow Meter:Sparling A10-1C
Pump test equipment provided/operated by: M&W Drilling, Anchorage/Bill Summerville & Ted Durham
Pump is 25 HP Berkely with 4" Dia. Drop Pipe.
Attached are well logs and all completion information (casing sizes, location of screens, performation, gravel pack, etc.)

1	2	3	4	5	6	7	8	9	10	11	12
Time	Elapsed Time t_n (min)	Recovery t' (min)	t/t'	Guage Discharge $\triangle Q_n$ (gpm)	Totalizer Readings	Totalizer Discharge Q_n (gpm)	Static Water Level ft below TOC	$\triangle$ Accumulative Draw Down	Draw Down	Available Drawdown (ft) = (static level - top of well screen)	Comments
1538	0	0	0	0			72.30	0.00	0.00	74.40	Start test.
1539	1			375			120.00	-47.70	-47.70	26.70	
1540	2			375			124.00	-51.70	-4.00	22.70	
1542	4			375			126.10	-53.80	-2.10	20.60	
1544	6			375			127.00	-54.70	-0.90	19.70	
1546	8			375			127.80	-55.50	-0.80	18.90	
1548	10			375			128.20	-55.90	-0.40	18.50	
1552	14			375			128.80	-56.50	-0.60	17.90	
1556	18			375			128.90	-56.60	-0.10	17.80	
1600	22			400			129.10	-56.80	-0.20	17.60	
1604	26			400	26607.0	0	129.20	-56.90	-0.10	17.50	(Totalizer
1608	30			400	26620.7	343	129.30	-57.00	-0.10	17.40	reading
1613	35			400	26637.9	344	129.70	-57.40	-0.40	17.00	begins @
1618	40			400	26654.9	340	128.10	-55.80	1.60	18.60	1604)
1630	52			400	26696.0	342	129.00	-56.70	-0.90	17.70	
1638	60			400	26723.5	344	129.30	-57.00	-0.30	17.40	
1648	70			400	26757.9	344	129.30	-57.00	0.00	17.40	
1658	80			400	26795.5	376	129.30	-57.00	0.00	17.40	
1708	90			400	26826.5	310	129.60	-57.30	-0.30	17.10	
1718	100			400	26861.0	345	129.90	-57.60	-0.30	16.80	
1728	110			400	26895.8	348	130.20	-57.90	-0.30	16.50	
1738	120			400	26930.5	347	130.40	-58.10	-0.20	16.30	
1748	130			400	26965.0	345	130.50	-58.20	-0.10	16.20	
1758	140			400	26999.6	346	130.60	-58.30	-0.10	16.10	End Flow
1800		0		0	Recovery						Recovery Rate
1815		15		0	Recovery		77.70				93%
1830		30		0	Recovery		76.90				94%
1900		60		0	Recovery		75.60				96%