

Brannen John

From: Newhall, Michael (FAA) [REDACTED]
Sent: Monday, April 13, 2020 11:50 AM
To: Brannen John
Subject: N107EH, R44
Attachments: Scanned Pilot Logbook from 9-29-2018 to present.pdf; Digital Online logbook.pdf

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John

You asked me last week for some information on the flight times of the pilot Ryan Doolittle.
Attached are scanned copies of his Pilot Logbook and electronic records from his employer Minnesota Helicopter.

Ryan's Total Flight Hours:	945 hrs.
Hours in R44:	665 hrs.
Hours in Last Year:	277 hrs.
Hours in Last 90 Days:	68 hrs.

Michael Newhall
Aviation Safety
Principal Inspector Des Moines IA FSDO CE-01
Phone: [REDACTED]

The Standard
PILOT LOG

ASA-SP-57

Flight Review in a Robinson R22

I certify that (First name, MI, Last name) Ryan Doolittle Cert. # [REDACTED]
has satisfactorily completed the flight review required by 61.56 and SFAR 73
(2)(c)(1) and (3), on 12/4/18

Date 12/4/18 Noah K. DeKam 3 [REDACTED]

Flight Review in a Robinson R44

I certify that (First name, MI, Last name) Ryan Doolittle Cert. # [REDACTED]
has satisfactorily completed the flight review required by 61.56 and SFAR 73
(2)(c)(2) and (3), on 12/4/18

Date 12/4/18 Noah K. DeKam [REDACTED]



ASA-SP-57

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The Standard Pilot Log
SP-57

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ASA-SP-57

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ISBN 978-1-56027-330-1



9 781560 273301

The Standard Pilot Log

Name Ryan Doolittle

Mailing Address Minneapolis, MN 55418

Logbook Number 2

From 9/29/18

To

Certificates Held

Type

Date Issued

Certificate Number

REMOTE PILOT

STUDENT PILOT

SPORT PILOT

RECREATIONAL PILOT

PRIVATE PILOT

COMMERCIAL PILOT

FLIGHT INSTRUCTOR

AIRLINE TRANSPORT PILOT

AVIATION TECHNICIAN

GROUND INSTRUCTOR

10/24/15

11/25/16

Rating Record	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

☐ AIRPLANE☐ SINGLE ENGINE: ☐ LAND ☐ SEA☐ MULTI-ENGINE: ☐ LAND ☐ SEA

☐ MULTI-ENGINE: Limited to Center Line Thrust

☐ INSTRUMENT ☐ UNMANNED (UAS)☐ GLIDER ☐ AERO TOW ☐ WINCH TOW☐ POWERED PARACHUTE: ☐ WEIGHT-SHIFT CONTROL

☒ ROTORCRAFT ☒ HELICOPTER ☐ GYROPLANE

☐ LIGHTER-THAN-AIR ☐ AIRSHIP ☐ BALLOON☐ POWERED LIFT☐ GI BASIC ☐ GI ADVANCED ☐ GI INSTRUMENT☐ OTHER RATINGS (Specify)

Aircraft Type Ratings

US\$12.95

51295 >

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Date

YEAR 2018 DATE	AIRCRAFT MAKE and MODEL	AIRCRAFT IDENTIFICATION NUMBER	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY and CLASSIFICATION				TYPE OF PILOTING TIME			
			FROM	TO	AIRPLANE SINGLE ENGINE LAND	AIRPLANE MULTI-ENGINE LAND	ROTORCRAFT HELICOPTER		DUAL RECEIVED	PILOT-IN- COMMAND	SECOND-IN- COMMAND	AS FLIGHT INSTRUCTOR
9/29	R44	134AA	STP	STP			0	7		0	7	
10/5		134AA	ANE	STP			0	5		0	5	
10/11		854WS	ANE	ANE			2	0		2	0	
10/12		134AA	ANE	ANE			1	8		1	8	
10/16		854WS	ANE	ANE			0	7		0	7	
10/17		854WS	ANE	ANE			1	4		1	4	
10/19		134AA	ANE	ANE			0	7		0	7	
11/2			ANE	ANE			1	7		1	7	
11/9			ANE	ANE			1	1		1	1	
11/18			ANE	ANE			1	0		1	0	
12/3	R22	7195E	ANE	ANE			1	1	1	1		
12/4	R44	134AA	ANE	ANE			1	1	1	1		
12/8	R44	134AA	ANE	ANE			0	8		0	8	
12/14	R44	134AA	ANE	ANE			1	3		1	3	
PAGE TOTAL							15	9	2	2	15	9
AMOUNT FORWARD							564	9	134	7	509	6
TOTAL TO DATE							580	8	136	9	525	5

SECOND-IN-
COMMANDAS FLIGHT
INSTRUCTORGROUND
TRAINER

CONDITIONS OF FLIGHT

DAY

NIGHT

CROSS-
COUNTRYACTUAL
INSTRUMENTSIMULATED
INSTRUMENTNO.
INSTR.
APPR.NO.
LDG.TOTAL
DURATION
OF FLIGHTREMARKS
PROCEDURES, MANEUVERS, ENDORSEMENTS

0 4 0 3

2 1 0 7

St Paul TOURS

0 5

2 0 5

St Paul TOURS, solo ferry

2 0

1 2 0

ZPC Field drying, solo

1 2 0 6

4 2 1 8

solo ferries & 5 tours

0 7

3 0 0 7

Visit St. Paul Meeting

1 4

3 1 4

Anoka conservation district
tours/survey

0 5 0 2

2 1 0 7

solo ferry & St. Paul tours

1 4 0 3

3 3 1 7

solo ferries & 5 St Paul tours

0 9 0 2

2 1 1 1

solo ferries & tours

1 0

1 1 0

Minnetonka & vicinity tour

1 1

3 1 1

P222 BFR

1 1

3 1 1

P244 BFR

0 4 0 4

1 2 0 8

solo ferry & tours

1 0 0 3

13 6 2 3

15 9

I certify that the statements made by me on this form are true.

529 3 35 6 275 6

5 1

564 9

542 9 38 9 275 6

5 1

580 8

PILOT SIGNATURE

Fli

Ice
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Date

YEAR 2018 DATE	AIRCRAFT MAKE and MODEL	AIRCRAFT IDENTIFICATION NUMBER	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY and CLASSIFICATION				TYPE OF PILOTING TIME			
			FROM	TO	AIRPLANE SINGLE ENGINE LAND	AIRPLANE MULTI-ENGINE LAND	ROTORCRAFT HELICOPTER		DUAL RECEIVED	PILOT-IN- COMMAND	SECOND-IN- COMMAND	AS FLIGHT INSTRUCTOR
12/21	R44	854WS	ANE	ANE			1 6			1 6		
12/22	R44	134AA	ANE	ANE			2 5			2 5		
12/28	R44	134AA	ANE	ANE			1 9			1 9		
1/4/19	R44	134AA	ANE	ANE			0 8			0 8		
1/11/19	R44	854WS	ANE	ANE			1 6			1 6		
1/12/19	R44	854WS	ANE	ANE			1 5			1 5		
1/18/19	R44	854WS	ANE	ANE			1 2			1 2		
2/15/19	R44	854WS	ANE	ANE			1 8			1 8		
2/22/19	R44	854WS	STP	STP			0 8			0 8		
2/27/19	R22	4170M	ANE	ANE			3 8			3 8		
2/28/19	R22	4170M	ANE	ANE			6 2			6 2		
3/2/19	R44	854WS	STP	STP			1 4			1 4		
3/6/19	R22	4170M	ANE	ANE			5 8			5 8		
3/6/19	R44	854WS	ANE	ANE			0 7			0 7		
PAGE TOTAL												
AMOUNT FORWARD							580 8		136.9	525 5		
TOTAL TO DATE												

SECOND-IN-
COMMAND

AS FLIGHT
INSTRUCTOR

GROUND TRAINER	CONDITIONS OF FLIGHT				ACTUAL INSTRUMENT		SIMULATED INSTRUMENT		NO. INSTR. APPR.	NO. LDG. DAY NIGHT	TOTAL DURATION OF FLIGHT		REMARKS PROCEDURES, MANEUVERS, ENDORSEMENTS
	DAY	NIGHT	CROSS- COUNTRY										
	08	08								33	16		Tour
	02	23								13	25		Tour
	04	15								33	19		Tour
	04	04								33	08		Tour
	16	00								10	16		Tour
	06	09								33	15		Tour
	07	05								33	12		Tour
	12	06								60	18		Tours
	08	00								20	08		Tours
	38	00	38							30	38		Deer Count ANE-XFE-ANE
	62	00	62							30	62		Deer Count ANE-FCM-ANE
	13	01								41	4		Tours
	58		58							35	58		Deer Count ANE-MIC-XFE-ANE
	07									10	07		Tour
	542	938	9275	6							580	8	

I certify that the statements made by me on this form are true.

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Date

YEAR 2019 DATE	AIRCRAFT MAKE and MODEL	AIRCRAFT IDENTIFICATION NUMBER	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY and CLASSIFICATION				TYPE OF PILOTING TIME			
			FROM	TO	AIRPLANE SINGLE ENGINE LAND	AIRPLANE MULTI-ENGINE LAND	ROTORCRAFT HELICOPTER	Turbine	DUAL RECEIVED	PILOT-IN- COMMAND	SECOND-IN- COMMAND	AS FLIGHT INSTRUCTOR
2/7	R22	4170M	ANE	ANE			8 0			8 0		
2/8	R44	854WS	STP	STP			1 5			1 5		
3/11	R22	4170M	ANE	EAU			1 0			1 0		
3/11	R22	4170M	EAU	EAU			5 9			5 9		
3/11	R22	4170M	EAU	ANE			1 0			1 0		
3/12	R22	4170M	ANE	ANE			3 8			3 8		
3/12	R22	4170M	ANE	ANE			6 2			6 2		
3/15	R22	7195E	ANE	ANE			1 2			1 2		
3/15	R44	854WS	STP	STP			1 8			1 8		
3/16	R44	854WS	STP	STP			4 3			4 3		
3/18	R22	4170M	ANE	ANE			5 9			5 9		
3/21	R22	7195E	ANE	ANE			2 2			2 2		
3/22	R44	1341AA	ANE	ANE			2 2			2 2		
3/23	206L3	7DQ	ANE	PRO			1 8			1 8		
3/23	206L3	7DQ	PRO	MKC								
PAGE TOTAL												
AMOUNT FORWARD												
TOTAL TO DATE												

File

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YEAR 2011 DATE	AIRCRAFT MAKE and MODEL	AIRCRAFT IDENTIFICATION NUMBER	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY and CLASSIFICATION				TYPE OF PILOTING TIME			
			FROM	TO	AIRPLANE SINGLE ENGINE LAND	AIRPLANE MULTI-ENGINE LAND	ROTORCRAFT HELICOPTER		DUAL RECEIVED	PILOT-IN- COMMAND	SECOND-IN- COMMAND	AS FLIGHT INSTRUCTOR
3/24	206L3	7DQ	MKC	MKC			180			180		
3/25	206L3	7DQ	K59	ANE			31			31		
3/28	R44	854WS	ANE	MWM			30			30		
3/28	R44	854WS	MWM	D42			26			26		
3/28	R44	854WS	D42	ANE			10			10		
3/29	R44	854WS	KANE	Y63			14			14		
3/29	R44	854WS	Y63	STP			13			13		
3/29	R44	854WS	STP	STP			10			10		
3/30	R44	854WS	ANE	ANE			14			14		
4/5	R44	854WS	STP	STP			10			10		
4/8	R22	7195E	ANE	ANE			32			32		
4/13	R44	134AA	STP	STP			06			06		
4/14	R44	854WS	ANE	ANE			05			05		
4/16	R44	134AA	ANE	ANE			46			46		
PAGE TOTAL												
AMOUNT FORWARD												
TOTAL TO DATE												

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Date

YEAR 2019 DATE	AIRCRAFT MAKE and MODEL	AIRCRAFT IDENTIFICATION NUMBER	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY and CLASSIFICATION				TYPE OF PILOTING TIME			
			FROM	TO	AIRPLANE SINGLE ENGINE LAND	AIRPLANE MULTI-ENGINE LAND	ROTORCRAFT HELICOPTER		DUAL RECEIVED	PILOT-IN- COMMAND	SECOND-IN- COMMAND	AS FLIGHT INSTRUCTOR
4/19	R44	854WS	STP	STP			20			20		
4/20	R44	854WS	STP	STP			06			06		
4/26	R44	134AA	STP	STP			05			05		
5/5	R44	134AA	STP	STP			03			03		
5/10	R44	134AA	STP	STP			09			09		
5/14	R44	134AA	ANE	ANE			33			33		
5/17	R44	134AA	ANE	ANE			24			24		
5/23	R44	854WS	ANE	45.338N 94.863W			09			09		
5/23	R44	854WS	45.338N 94.863W	45.338N 94.863W			52			52		
5/23	R44	854WS	45.338N 94.863W	ANE			08			08		
5/24	R44	854WS	ANE	ANE			11			11		
5/25	R22	7195E	ANE	ANE			20			20		
5/26	R22	7195E	ANE	ANE			05			05		
5/31	R44	854WS	STP	STP			16			16		
PAGE TOTAL												
AMOUNT FORWARD												
TOTAL TO DATE												

PILOT-IN-COMMAND	SECOND-IN-COMMAND	AS FLIGHT INSTRUCTOR
20		
06		
05		
03		
09		
33		
24		
09		
52		
08		
11		
20		
05		
16		

GROUND TRAINER	CONDITIONS OF FLIGHT								NO. INSTR. APPR.	NO. LDG. DAY /NIGHT	TOTAL DURATION OF FLIGHT	REMARKS PROCEDURES, MANEUVERS, ENDORSEMENTS
	DAY	NIGHT		CROSS- COUNTRY	ACTUAL INSTRUMENT	SIMULATED INSTRUMENT						
	1	6	0	4					3	2	0	Tours
	0	6							3	0	6	Tours
	0	5							1	0	5	Tours
	0	3							1	0	3	Tour
	0	9							3	0	9	Tours
	3	3							2	3	3	Crane Survey ANE→MIC→ANE
	2	4							3	2	4	Tours
	0	9			0	9			1	0	9	Ferry Solo
	5	2			5	2			3	5	2	Powerline Patrol / Fuel @ WV & Max
	0	8			0	8			1	0	8	Ferry Solo
	1	1							3	1	1	Tours
	1	5	0	5					1	2	0	Photo Flight
	0	5							1	0	5	Search for fuel cap
	1	6							3	1	6	Tours

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YEAR 2019 DATE	AIRCRAFT MAKE and MODEL	AIRCRAFT IDENTIFICATION NUMBER	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY and CLASSIFICATION				TYPE OF PILOTING TIME			
			FROM	TO	AIRPLANE SINGLE ENGINE LAND	AIRPLANE MULTI-ENGINE LAND	ROTORCRAFT HELICOPTER		DUAL RECEIVED	PILOT-IN- COMMAND	SECOND-IN- COMMAND	AS FLIGHT INSTRUCTOR
6/1	R44	134AA	ANE	ANE			0 7			0 7		
6/3	R44	854WS	ANE	ANE			7 7			7 7		
6/5	R44	854WS	ANE	ANE			6 9			6 9		
6/6	"	"	ANE	ANE			6 7			6 7		
6/8	"	"	STP	STP			2 2			2 2		
6/10	"	"	ANE	ANE			1 1			1 1		
6/12	"	134AA	ANE	ANE			5 8			5 8		
6/12	"	"	ANE	ANE			0 7			0 7		
6/15	"	"	STP	STP			2 6			2 6		
6/16	"	107EH	MKT	MKT			5 0			5 0		
6/18	"	7048C	ANE	ANE			5 3			5 3		
6/21	"	134AA	STP	STP			2 1			2 1		
6/22	"	7048C	ANE	ANE			0 7			0 7		
6/28	"	107EH	STP	STP			1 7			1 7		
PAGE TOTAL												
AMOUNT FORWARD												
TOTAL TO DATE												

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Ice
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Date

YEAR 2019 DATE	AIRCRAFT MAKE and MODEL	AIRCRAFT IDENTIFICATION NUMBER	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY and CLASSIFICATION				TYPE OF PILOTING TIME			
			FROM	TO	AIRPLANE SINGLE ENGINE LAND	AIRPLANE MULTI-ENGINE LAND	ROTORCRAFT HELICOPTER		DUAL RECEIVED	PILOT-IN- COMMAND	SECOND-IN- COMMAND	AS FLIGHT INSTRUCTOR
7/6	R44	854WS	STP	STP			1 5			1 5		
7/11	"	"	ANE	ANE			7 7			7 7		
7/12	"	"	STP	STP			1 8			1 8		
7/14	"	"	ANE	ANE			1 5			1 5		
7/15	"	"	ANE	ANE			0 8			0 8		
7/16	"	107EH	ANE	ANE			0 7			0 7		
7/18	"	854WS	ANE	ANE			11 1			11 1		
7/19	"	"	STP	STP			1 5			1 5		
7/21	"	107EH	FAR	FAR			5 2			5 2		
7/26	"	854WS	STP	STP			1 3			1 3		
8/2	"	"	STP	STP			1 6			1 6		
8/4	"	"	ANE	ANE			0 7			0 7		
8/9	"	107EH	STP	STP			1 3			1 3		
8/16	"	854WS	STP	STP			1 6			1 6		
PAGE TOTAL												
AMOUNT FORWARD												
TOTAL TO DATE												

OF PILOTING TIME

PILOT-IN-COMMAND
SECOND-IN-COMMAND
AS FLIGHT INSTRUCTOR

1 5

7 7

1 8

1 5

0 8

0 7

11 1

1 5

5 2

1 3

1 6

0 7

1 3

1 6

GROUND TRAINER

CONDITIONS OF FLIGHT

DAY

NIGHT

CROSS-COUNTRY

ACTUAL INSTRUMENT

SIMULATED INSTRUMENT

NO. INSTR. APPR.

NO. LDG. DAY/NIGHT

TOTAL DURATION OF FLIGHT

REMARKS PROCEDURES, MANEUVERS, ENDORSEMENTS

1 5

7 7

1 8

1 5

0 8

0 7

11 1

1 5

5 2

1 3

1 6

0 7

1 3

1 6

7 7

1 5

11 1

3

3

3

2

1

1

3

3

50

3

3

1

3

3

1 5

7 7

1 8

1 5

0 8

0 7

11 1

1 5

5 2

1 3

1 6

0 7

1 3

1 6

TOURS

Fun Flight ANE → FEP → RPS → ANE

TOURS

Fun Flight ANE → MY87 → ANE

Golf ball drop

TOUR

Partner Patrol
ANE → ADX → 16 D → FFM → Mox → ADX → ANE

TOURS

Forgo airshow air rides

TOURS

TOURS

TOUR

TOURS

TOURS

I certify that the statements made by me on this form are true.

PILOT'S SIG

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Ice
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Date

YEAR 2019 DATE	AIRCRAFT MAKE and MODEL	AIRCRAFT IDENTIFICATION NUMBER	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY and CLASSIFICATION				TYPE OF PILOTING TIME			
			FROM	TO	AIRPLANE SINGLE ENGINE LAND	AIRPLANE MULTI-ENGINE LAND	ROTORCRAFT HELICOPTER		DUAL RECEIVED	PILOT-IN- COMMAND	SECOND-IN- COMMAND	AS FLIGHT INSTRUCT
8/17	R44	107EH	ANE	VVV			1	4		1	4	
8/18	"	"	VVV	Y63			5	6		5	6	
8/27	"	854WS	STP	STP			1	1		1	1	
8/30	"	"	STP	STP			2	8		2	8	
9/6	"	"	STP	STP			1	5		1	5	
9/7	"	134AA	ANE	ANE			0	6		0	6	
9/8	"	"	ANE	ANE			0	7		0	7	
9/10	206L3	70Q	ANE	ANE			7	0		7	0	
9/13	R44	134AA	STP	STP			1	0		1	0	
9/14	"	"	STP	STP			0	7		0	7	
9/29	"	"	ANE	ANE			1	4		1	4	
10/4	"	854WS	STP	STP			1	8		1	8	
10/7	R22	4170M	ANE	ANE			5	8		5	8	
10/8	R44	134AA	STP	STP			3	0		3	0	
PAGE TOTAL												
AMOUNT FORWARD												
TOTAL TO DATE												

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Date

YEAR 2014 DATE	AIRCRAFT MAKE and MODEL	AIRCRAFT IDENTIFICATION NUMBER	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY and CLASSIFICATION				TYPE OF PILOTING TIME			
			FROM	TO	AIRPLANE SINGLE ENGINE LAND	AIRPLANE MULTI-ENGINE LAND	ROTORCRAFT HELICOPTER		DUAL RECEIVED	PILOT-IN- COMMAND	SECOND-IN- COMMAND	AS FLIGHT INSTRUCTOR
10/9	R44	134AA	STP	STP			20			20		
10/11	"	"	STP	STP			19			19		
10/17	"	"	ANE	GFM			23			23		
10/17	"	"	GFM	HZN			58			58		
10/17	"	"	HZN	BWP			33			33		
10/17	"	"	BWP	ANE			18			18		
10/18	"	854WS	ANE	ANE			66			66		
10/19	"	"	STP	STP			19			19		
10/25	"	"	ANE	ANE			44			44		
10/26	"	134AA	STP	STP			24			24		
11/2	"	854WS	ANE	STP			36			36		
11/8	"	134AA	STP	STP			08			08		
11/15	"	107E14	STP	STP			10			10		
11/15	"	854WS	STP	ANE			04			04		
PAGE TOTAL												
AMOUNT FORWARD												
TOTAL TO DATE												

FILE

License
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Date

YEAR 2019 DATE	AIRCRAFT MAKE and MODEL	AIRCRAFT IDENTIFICATION NUMBER	POINTS OF DEPARTURE & ARRIVAL		AIRCRAFT CATEGORY and CLASSIFICATION				TYPE OF PILOTING TIME			
			FROM	TO	AIRPLANE SINGLE ENGINE LAND	AIRPLANE MULTI-ENGINE LAND	ROTORCRAFT HELICOPTER		DUAL RECEIVED	PILOT-IN- COMMAND	SECOND-IN- COMMAND	AS FLIGHT INSTRUCTOR
11/23	R44	854WS	STP	STP			0	9		0	9	
12/6	R44	"	STP	STP			1	0		1	0	
12/13	R22	4170M	ANE	ANE			1	1	1	1		
12/14	R44	134AA	STP	STP			1	6		1	6	
12/17	R22	4170M	ANE	ANE			1	4	1	4		
12/19	R22	4170M	ANE	ANE			1	4	1	4		
12/20	R22	4170M	ANE	ANE			1	1	1	1		
12/27	R22	4170M	ANE	ANE			1	1	1	1		
12/20	R44	134AA	STP	STP			0	6		0	6	
12/27	R44	134AA	ANE	STP ANE			3	4		3	4	
12/20	R22	4170M	ANE	ANE			1	6	1	6		
1/3/20	R22	4170M	ANE	ANE			1	3	1	3		
1/10	R22	719SE	ANE	ANE			2	2	2	2		
1/10/20	R22	4170M	ANE	ANE			1	5	1	5		
PAGE TOTAL												
AMOUNT FORWARD							884	6	136	9	829	3
TOTAL TO DATE												

TYPE OF PILOTING TIME		SECOND-IN-COMMAND	AS FLIGHT INSTRUCTOR
PILOT-IN-COMMAND	PILOT-IN-COMMAND		
	09		
	10		
11	11		
	16		
14	14		
14	14		
11	11		
11	11		
	06		
	34		
16	16		
13	13		
22	22		
15	15		
189 8293			

GROUND TRAINER	CONDITIONS OF FLIGHT					NO. INSTR. APPR.	NO. LOG. DAY	TOTAL DURATION OF FLIGHT	REMARKS PROCEDURES, MANEUVERS, ENDORSEMENTS
	DAY	NIGHT	CROSS-COUNTRY	ACTUAL INSTRUMENT	SIMULATED INSTRUMENT				
	07	02					21	09	TOURS
	04	06					12	10	TOURS
	11						3	11	CFI Training
	09	07					33	16	TOURS
	14						1	14	CFI Training
	14						3	14	CFI Training
	11						7	11	CFI Training Autos
	11						3	11	CFI Training (Autos)
	06						3	06	TOURS
	16	18					33	34	TOURS
	16						3	16	CFI Training Autos for CFI, then Red
	13						3	13	CFI Training Steeper & Red Autos
	22						3	22	CFI Training Approaches Autos
	15						3	15	CFI S&L Hovering
	8283	563	410	4				884	6

I certify that the statements made by me on this form are true.

PILOT'S SIGNATURE

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[illegible]

[illegible]

Flight▼	Tail	Cat/ Class /Type	Approaches	Hold	Landings ^[?]	X-C	Night	Sim. Inst.	Grnd. IMC	Sim.	Dual	CFI	SIC	PIC	Total
3/31/2020 CIN Heartland Divide 2 Raptor survey ☺	N107EH	Helicopter (R44)			1 (1D)									3.3	3.3
3/31/2020 CIN Heartland Divide 2 Raptor survey ☺	N107EH	Helicopter (R44)			1 (1D)									3.6	3.6
3/31/2020 FSD CIN Ferry ☺	N107EH	Helicopter (R44)			1 (1D)	1.6								1.6	1.6
3/30/2020 FSD Lighting Up Sioux Falls Event ☺	N107EH	Helicopter (R44)			1 (1D)		1.0							1.0	1.0
3/30/2020 FSD Photo test flight ☺	N107EH	Helicopter (R44)			1 (1D)									0.5	0.5
3/30/2020 Y63 FSD Ferry ☺	N107EH	Helicopter (R44)			1 (1D)	1.8								1.8	1.8
3/13/2020 STP Tour ☺	N854WS	Helicopter (R44)			1 (1D)									0.3	0.3
3/6/2020 STP Tour ☺	N854WS	Helicopter (R44)			1 (1D)		0.5							0.5	0.5
3/6/2020 STP Tour ☺	N854WS	Helicopter (R44)			1 (1D)		0.5							0.5	0.5
3/6/2020 STP Tour ☺	N854WS	Helicopter (R44)			1 (1N)		0.3							0.3	0.3
3/6/2020 Stp Tour ☺	N854WS	Helicopter (R44)			1 (1D)									0.3	0.3
3/6/2020 STP Tour ☺	N854WS	Helicopter (R44)			1 (1D)									0.3	0.3
2/28/2020 STP Tours ☺	N134AA	Helicopter (R44)			3 (2D, 1N)		0.3							0.9	0.9
2/22/2020 STP Tour ☺	N854WS	Helicopter (R44)			1 (1N)		0.3							0.3	0.3
2/21/2020 STP Tours ☺	N854WS	Helicopter (R44)			6 (2D, 4N)		0.9							1.7	1.7
2/18/2020 ANE Anoka county deer count ☺	N854WS	Helicopter (R44)			2 (2D)									4.0	4.0
2/16/2020 ANE Photo flight ☺	N4170M	Helicopter (R22)			1 (1D)									0.8	0.8
2/15/2020 STP Tours ☺	N854WS	Helicopter (R44)			4 (3D, 1N)		0.2							1.5	1.5
2/14/2020 STP Tours ☺	N854WS	Helicopter (R44)			6 (3D, 3N)		3.5							4.4	4.4
2/11/2020 ANE Tour ☺	N134AA	Helicopter (R44)			1 (1N)		0.6							0.6	0.6
2/8/2020 STP ☺	N854WS	Helicopter (R44)			1 (1N)		0.3							0.3	0.3
2/8/2020 STP Tour ☺	N854WS	Helicopter (R44)			1 (1N)		0.3							0.3	0.3
2/8/2020 STP Tour ☺	N854WS	Helicopter (R44)			1 (1D)									0.3	0.3
2/8/2020 STP Tour ☺	N854WS	Helicopter (R44)			1 (1D)									0.4	0.4
2/7/2020 STP Tour ☺	N134AA	Helicopter (R44)			1 (1N)		0.5							0.5	0.5
2/5/2020 ANE Schwieter Survey ☺	N854WS	Helicopter (R44)			2 (2D)	2.2								2.2	2.2
2/4/2020 STC ANE Ferry ☺	N854WS	Helicopter (R44)			1 (1D)	0.6								0.6	0.6
2/4/2020 AXN STC Powerline patrol ☺	N854WS	Helicopter (R44)			1 (1D)	2.5								2.5	2.5
2/4/2020 RGK AXN Powerline survey ☺	N854WS	Helicopter (R44)			1 (1D)	2.2								2.2	2.2
2/4/2020 ANE STC RGK Powerline survey ☺	N854WS	Helicopter (R44)			2 (2D)	2.3								2.3	2.3
2/1/2020 STP Holman's ☺	N134AA	Helicopter (R44)			3 (3D)									0.8	0.8
1/21/2020 ANE FCM ANE Deer count. Steven. Hyland park, Bloomington, MN River Valley, Eden Prairie ☺	N4170M	Helicopter (R22)			3 (3D)									5.9	5.9
1/14/2020 ANE CFI training w/Nick. Basics, autos, intro to full downs ☺	N719SE	Helicopter (R22)			3 (3D)						1.1			1.1	1.1
1/10/2020 STP Tours ☺	N134AA	Helicopter (R44)			3 (2D, 1N)		0.2							0.5	0.5
1/10/2020 ANE CFI straight and level and hover ☺	N4170M	Helicopter (R22)			3 (3D)						1.5			1.5	1.5
1/9/2020 ANE CFI training. Approaches, autos ☺	N719SE	Helicopter (R22)			3 (3D)						2.2			2.2	2.2
1/3/2020 ANE CFI training autos straight and 180 ☺	N4170M	Helicopter (R22)			3 (3D)						1.3			1.3	1.3
1/2/2020 ANE CFI training autos gov off stuck pedal ☺	N4170M	Helicopter (R22)			3 (3D)						1.6			1.6	1.6
12/27/2019 ANE STP ANE St Paul Tours ☺	N134AA	Helicopter (R44)			6 (3D, 3N)	1.8								3.4	3.4
12/27/2019 ANE CFI training autos ☺	N4170M	Helicopter (R22)			3 (3D)						1.1			1.1	1.1
12/20/2019 STP Tour ☺	N134AA	Helicopter (R44)			2 (2D)									0.6	0.6
12/20/2019 ANE 25D ANE CFI lesson ☺	N4170M	Helicopter (R22)			3 (3D)						1.4			1.4	1.4
12/19/2019 ANE CFI lesson ☺	N4170M	Helicopter (R22)			3 (3D)						1.4			1.4	1.4
12/17/2019 ANE CFI lesson ☺	N4170M	Helicopter (R22)			1 (1D)						1.4			1.4	1.4
12/14/2019 STP Holman's Table ☺	N134AA	Helicopter (R44)			6 (2D, 4N)	0.7								1.6	1.6
12/13/2019 ANE CFI training ☺	N4170M	Helicopter (R22)			3 (3D)						1.1			1.1	1.1
12/6/2019 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			3 (1D, 2N)	0.6								1.0	1.0
11/23/2019 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			3 (2D, 1N)	0.2								0.9	0.9
11/15/2019 STP ANE Ferry ☺	N854WS	Helicopter (R44)			1 (1N)	0.4								0.4	0.4
11/15/2019 STP Holmans tours ☺	N107EH	Helicopter (R44)			2 (2D)									1.0	1.0

Flight▼	Tail	Cat/ Class /Type	Approaches	Hold	Landings ^[1]	X-C	Night	Sim. Inst. IMC	Grnd. Sim.	Dual	CFI	SIC	PIC	Total
11/8/2019 STP Holmans tours ☺	N134AA	Helicopter (R44)			2 (1D, 1N)		0.1						0.8	0.8
11/2/2019 ANE TAYLORFALLS STP IBEX event and Holmans Tours ☺	N854WS	Helicopter (R44)			6 (3D, 3N)		1.3						3.6	3.6
10/26/2019 ANE STP St Paul tours ☺	N134AA	Helicopter (R44)			6 (3D, 3N)		0.7						2.4	2.4
10/25/2019 ANE 04W ROS ANE GRE powerline photo flight w/ Chris ☺	N854WS	Helicopter (R44)			3 (3D)		4.4						4.4	4.4
10/19/2019 STP St paul tours ☺	N854WS	Helicopter (R44)			6 (3D, 3N)		0.8						1.9	1.9
10/18/2019 ANE ULM OVL BDH LJF GRE power line photo flight with chris ☺	N854WS	Helicopter (R44)			3 (3D)		6.6						6.6	6.6
10/17/2019 BWP ANE Ferry ☺	N134AA	Helicopter (R44)			1 (1N)		1.8	0.2					1.8	1.8
10/17/2019 HZN BWP GRE Cole Creek powerline patrol ☺	N134AA	Helicopter (R44)			1 (1D)		3.3						3.3	3.3
10/17/2019 GFK 5H4 RUG HZN Power line survey with Darrell GRE ☺	N134AA	Helicopter (R44)			3 (3D)		5.8						5.8	5.8
10/17/2019 ANE GFK Ferry ☺	N134AA	Helicopter (R44)			1 (1D)		2.1	1.5					2.3	2.3
10/11/2019 ANE STP ANE St Paul tours ☺	N134AA	Helicopter (R44)			6 (3D, 3N)		0.7						1.9	1.9
10/9/2019 STP Holmans event ☺	N134AA	Helicopter (R44)			4 (3D, 1N)		0.3						2.0	2.0
10/8/2019 ANE STP Blaine tour and Holmans table air ride event ☺	N134AA	Helicopter (R44)			3 (3D)								3.0	3.0
10/7/2019 ANE FCM SGS ANE Photo flight with Curt ☺	N4170M	Helicopter (R22)			3 (3D)								5.8	5.8
10/4/2019 STP St Paul tours ☺	N854WS	Helicopter (R44)			4 (3D, 1N)		0.2						1.8	1.8
9/29/2019 ANE 9WN2 ANE Josh, Brie, and Dustin Voyager Village breakfast ☺	N134AA	Helicopter (R44)			2 (2D)		1.4						1.4	1.4
9/14/2019 STP St Paul tours ☺	N134AA	Helicopter (R44)			2 (2D)								0.7	0.7
9/13/2019 STP St Paul tours ☺	N134AA	Helicopter (R44)			4 (3D, 1N)		0.1						1.0	1.0
9/10/2019 ANE FSD RAP PHP PIR MDS FSD ANE Fun flight ☺	N7DQ	Helicopter			4 (3D, 1N)		7.0	2.5					7.0	7.0
9/8/2019 ANE Blaine TC tour ☺	N134AA	Helicopter (R44)			1 (1D)								0.7	0.7
9/7/2019 ANE Photo shoot ☺	N134AA	Helicopter (R44)			3 (3D)								0.6	0.6
9/6/2019 STP St Paul tours ☺	N854WS	Helicopter (R44)			4 (3D, 1N)		0.3						1.5	1.5
8/30/2019 STP St Paul tours ☺	N854WS	Helicopter (R44)			5 (3D, 2N)		0.6						2.8	2.8
8/27/2019 STP ANE St Croix tour ☺	N854WS	Helicopter (R44)			3 (2D, 1N)		0.3						1.1	1.1
8/18/2019 VVV Y63 Ortenville corn fest air rides ☺	N107EH	Helicopter (R44)			3 (3D)		0.6						5.6	5.6
8/17/2019 ANE VVV Solo ferry ☺	N107EH	Helicopter (R44)			2 (2D)		1.9						1.9	1.9
8/16/2019 STP St Paul tours ☺	N854WS	Helicopter (R44)			3 (3D)								1.6	1.6
8/9/2019 STP St Paul tours ☺	N107EH	Helicopter (R44)			3 (3D)								1.3	1.3
8/4/2019 ANE Blain tc tour ☺	N854WS	Helicopter (R44)			1 (1D)								0.7	0.7
8/2/2019 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			3 (3D)								1.6	1.6
7/26/2019 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			3 (3D)								1.3	1.3
7/21/2019 FAR Fargo air show ☺	N107EH	Helicopter (R44)			50 (50D)								5.2	5.2
7/19/2019 STP St Paul tours ☺	N854WS	Helicopter (R44)			3 (3D)								1.5	1.5
7/18/2019 ANE ADC 16D FFM MOX ADC ANE GRE powerline survey ☺	N854WS	Helicopter (R44)			3 (3D)		11.1						11.1	11.1
7/16/2019 ANE Blaine TC tour ☺	N107EH	Helicopter (R44)			1 (1D)								0.7	0.7
7/15/2019 ANE Golf ball drop St. Francis	N854WS	Helicopter (R44)			1 (1D)								0.8	0.8
7/14/2019 ANE MY87 Fun flight ☺	N854WS	Helicopter (R44)			2 (2D)		1.5						1.5	1.5
7/12/2019 STP St Paul tours ☺	N854WS	Helicopter (R44)			3 (3D)								1.8	1.8
7/11/2019 KANE KFEP KRPJ KANE Fun flight ☺	N854WS	Helicopter (R44)			3 (3D)		7.7						7.7	7.7
7/6/2019 STP St Paul tours ☺	N854WS	Helicopter (R44)			3 (3D)								1.5	1.5
6/28/2019 STP St Paul tours ☺	N107EH	Helicopter (R44)			3 (3D)								1.7	1.7
6/22/2019 ANE Blaine tour ☺	N7048C	Helicopter (R44)			1 (1D)								0.7	0.7
6/21/2019 STP St Paul tours ☺	N134AA	Helicopter (R44)			3 (3D)								2.1	2.1
6/18/2019 ANE HCD ANE GRE powerline survey.....wire strike close call ☺	N7048C	Helicopter (R44)			3 (3D)		5.3						5.3	5.3
6/16/2019 MKT Mankato airshow air rides ☺	N107EH	Helicopter (R44)			3 (3D)								5.0	5.0
6/15/2019 ANE STP St Paul tours ☺	N134AA	Helicopter (R44)			3 (3D)								2.6	2.6
6/12/2019 ANE Tour ☺	N134AA	Helicopter (R44)			1 (1D)								0.7	0.7
6/12/2019 ANE MML RWF ANE Ferry and powerline survey ☺	N134AA	Helicopter (R44)			3 (3D)		5.8						5.8	5.8
6/10/2019 ANE Golf ball drops	N854WS	Helicopter (R44)			2 (2D)								1.1	1.1
6/8/2019 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			3 (3D)								2.2	2.2

Flight▼	Tail	Cat/ Class /Type	Approaches	Hold	Landings ^[?]	X-C	Night	Sim. Inst.	IMC	Grnd. Sim.	Dual	CFI	SIC	PIC	Total
6/6/2019 ANE STC FFM Y63 STC ANE GRE powerline survey ☺	N854WS	Helicopter (R44)			3 (3D)	6.7								6.7	6.7
6/5/2019 ANE STC CFE STC ANE GRE powerline survey ☺	N854WS	Helicopter (R44)			3 (3D)	6.9								6.9	6.9
6/3/2019 ANE STC RWF LVN STC ANE GRE powerline survey with Tim ☺	N854WS	Helicopter (R44)			3 (3D)	7.5								7.7	7.7
6/1/2019 ANE Blaine tour ☺	N134AA	Helicopter (R44)			1 (1D)									0.7	0.7
5/31/2019 STP St Paul tours ☺	N854WS	Helicopter (R44)			3 (3D)									1.6	1.6
5/26/2019 ANE Search for fuel cap ☺	N719SE	Helicopter (R22)			1 (1D)									0.5	0.5
5/25/2019 ANE STP ANE St Paul photo flight ☺	N719SE	Helicopter (R22)			3 (1D, 2N)	0.5								2.0	2.0
5/24/2019 ANE STP ANE St Paul tours ☺	N854WS	Helicopter (R44)			3 (3D)									1.1	1.1
5/23/2019 45.3378725, -94.8626364 ANE Ferry ☺	N854WS	Helicopter (R44)			1 (1D)	0.8								0.8	0.8
5/23/2019 45.3378725, -94.8626364 VVV MOX 45.3378725, -94.8626364 GRE powerline survey ☺	N854WS	Helicopter (R44)			3 (3D)	5.2								5.2	5.2
5/23/2019 ANE 45.3378725, -94.8626364 Ferry ☺	N854WS	Helicopter (R44)			1 (1D)	0.9								0.9	0.9
5/17/2019 ANE STP ANE St Paul tours ☺	N134AA	Helicopter (R44)			3 (3D)									2.4	2.4
5/14/2019 ANE MIC ANE Crane survey ☺	N134AA	Helicopter (R44)			3 (3D)									3.3	3.3
5/10/2019 STP St Paul tours ☺	N134AA	Helicopter (R44)			3 (3D)									0.9	0.9
5/5/2019 STP St Paul tour ☺	N134AA	Helicopter (R44)			1 (1D)									0.3	0.3
4/26/2019 STP St Paul tours ☺	N134AA	Helicopter (R44)			1 (1D)									0.5	0.5
4/20/2019 STP St Paul tours ☺	N854WS	Helicopter (R44)			3 (3D)									0.6	0.6
4/19/2019 STP Tours ☺	N854WS	Helicopter (R44)			5 (3D, 2N)	0.4								2.0	2.0
4/16/2019 ANE MJQ ANE Fox Lake Survey w/Ryan ☺	N134AA	Helicopter (R44)			2 (2D)	4.6								4.6	4.6
4/14/2019 ANE White Bear lake St Croix tour ☺	N854WS	Helicopter (R44)			1 (1D)									0.5	0.5
4/13/2019 STP ANE St Paul tours	N134AA	Helicopter (R44)			4 (3D, 1N)	0.2								0.6	0.6
4/8/2019 ANE SGS ANE Three rivers eagle survey with John ☺	N719SE	Helicopter (R22)			3 (3D)									3.2	3.2
4/5/2019 STP St Paul tours ☺	N854WS	Helicopter (R44)			4 (3D, 1N)	0.3								1.0	1.0
3/30/2019 ANE STP St Paul tours.....Last MN Heli flight ☺	N854WS	Helicopter (R44)			6 (3D, 3N)	0.5								1.4	1.4
3/29/2019 STP ANE Tours ☺	N854WS	Helicopter (R44)			4 (3D, 1N)	0.2								1.0	1.0
3/29/2019 Y63 STP Ferry ☺	N854WS	Helicopter (R44)			1 (1D)	1.3								1.3	1.3
3/29/2019 KANE Y63 Mtx ferry ☺	N854WS	Helicopter (R44)			1 (1D)	1.4								1.4	1.4
3/28/2019 D42 KANE Ferry ☺	N854WS	Helicopter (R44)			1 (1D)	1.0								1.0	1.0
3/28/2019 MWM D42 Eagle survey ☺	N854WS	Helicopter (R44)			2 (2D)									2.6	2.6
3/28/2019 ANE MWM Eagle survey ☺	N854WS	Helicopter (R44)			1 (1D)	3.0								3.0	3.0
3/25/2019 MKC Railroad flood survey ☺	N7DQ	Helicopter			4 (4D)									4.0	4.0
3/25/2019 K59 PRO ANE Ferry ☺	N7DQ	Helicopter			2 (2D)	3.1								3.1	3.1
3/24/2019 MKC Railroad flood survey and ferry ☺	N7DQ	Helicopter			3 (3D)									3.1	3.1
3/23/2019 MKC Railroad flood survey ☺	N7DQ	Helicopter			5 (5D)									3.0	3.0
3/23/2019 KPRO KMKC Ferry ☺	N7DQ	Helicopter			1 (1D)	1.8								1.8	1.8
3/23/2019 KANE KPRO Ferry ☺	N7DQ	Helicopter			1 (1D)	2.2								2.2	2.2
3/22/2019 ANE STP ANE Tours ☺	N134AA	Helicopter (R44)			6 (3D, 3N)	0.3								2.2	2.2
3/21/2019 ANE 21D ANE Deer count ☺	N719SE	Helicopter (R22)			3 (3D)									5.9	5.9
3/18/2019 ANE KMIC LVN Deer count ☺	N4170M	Helicopter (R22)			3 (3D)	4.3								4.3	4.3
3/16/2019 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			6 (3D, 3N)	0.4								1.8	1.8
3/15/2019 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			6 (3D, 3N)	0.5								1.2	1.2
3/15/2019 ANE FCM LVN Deer count ☺	N719SE	Helicopter (R22)			3 (3D)	6.2								6.2	6.2
3/12/2019 ANE FCM Deer count ☺	N4170M	Helicopter (R22)			3 (3D)									3.8	3.8
3/11/2019 EAU ANE Ferry ☺	N4170M	Helicopter (R22)			1 (1D)	1.0								1.0	1.0
3/11/2019 EAU Deer count ☺	N4170M	Helicopter (R22)			3 (3D)									5.9	5.9
3/11/2019 ANE EAU Ferry ☺	N4170M	Helicopter (R22)			1 (1D)	1.0								1.0	1.0
3/8/2019 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			5 (3D, 2N)	0.5								1.5	1.5
3/7/2019 ANE FCM SGS Deer count ☺	N4170M	Helicopter (R22)			3 (3D)									8.0	8.0
3/6/2019 ANE Tour ☺	N854WS	Helicopter (R44)			1 (1D)									0.7	0.7
3/6/2019 ANE MIC CFE Deer count ☺	N4170M	Helicopter (R22)			3 (3D)	5.8								5.8	5.8

Flight▼	Tail	Cat/ Class /Type	Approaches	Hold	Landings ^[?]	X-C	Night	Sim. Inst.	IMC	Grnd. Sim.	Dual	CFI	SIC	PIC	Total
3/2/2019 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			4 (3D, 1N)			0.1						1.4	1.4
2/28/2019 ANE FCM ANE Deer count ☺	N4170M	Helicopter (R22)			3 (3D)									6.2	6.2
2/27/2019 ANE CFE ANE Deer count ☺	N4170M	Helicopter (R22)			3 (3D)	3.8								3.8	3.8
2/22/2019 STP St Paul tours ☺	N854WS	Helicopter (R44)			2 (2D)									0.8	0.8
2/15/2019 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			6 (3D, 3N)		0.6							1.8	1.8
1/18/2019 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			6 (3D, 3N)		0.5							1.2	1.2
1/12/2019 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			6 (3D, 3N)		0.9							1.5	1.5
1/11/2019 ANE ANE Tour ☺	N854WS	Helicopter (R44)			1 (1D)									1.6	1.6
1/4/2019 STP St Paul tours ☺	N134AA	Helicopter (R44)			6 (3D, 3N)		0.4							0.8	0.8
12/28/2018 STP ANE St Paul tour ☺	N134AA	Helicopter (R44)			6 (3D, 3N)		1.5							1.9	1.9
12/22/2018 STP St Paul tours ☺	N134AA	Helicopter (R44)			3 (3N)		2.3							2.5	2.5
12/21/2018 ANE STP St Paul tours ☺	N854WS	Helicopter (R44)			6 (3D, 3N)		0.8							1.6	1.6
12/14/2018 ANE STP ☺	N134AA	Helicopter (R44)			5 (3D, 2N)		0.3							1.3	1.3
12/7/2018 ANE STP ANE St Paul tours ☺	N134AA	Helicopter (R44)			3 (1D, 2N)		0.4							0.8	0.8
12/4/2018 ANE R44 BFR ☺	N134AA	Helicopter (R44)			3 (3D)						1.1			1.1	1.1
12/3/2018 ANE R22 BFR ☺	N7195E	Helicopter (R22)			3 (3D)						1.1			1.1	1.1
11/18/2018 ANE Minnetonka & downtown Minneapolis St Paul tour ☺	N134AA	Helicopter (R44)			1 (1D)									1.0	1.0
11/9/2018 ANE STP St Paul tours ☺	N134AA	Helicopter (R44)			3 (2D, 1N)		0.2							1.1	1.1
11/2/2018 ANE STP Ferry, 3 St Paul tours, 2 twin City tours ☺	N134AA	Helicopter (R44)			6 (3D, 3N)		0.3							1.7	1.7
10/19/2018 ANE STP Ferry ☺	N134AA	Helicopter (R44)			3 (2D, 1N)		0.2							0.7	0.7
10/17/2018 ANE Anoka conservation district survey/tour ☺	N854WS	Helicopter (R44)			3 (3D)									1.4	1.4
10/16/2018 ANE STP Visit St Paul meeting ☺	N854WS	Helicopter (R44)			3 (3D)									0.7	0.7
10/12/2018 ANE STP 5 tours and ferry ☺	N134AA	Helicopter (R44)			6 (3D, 3N)		0.6							1.8	1.8
10/11/2018 ANE Dry field for ZPC, hover practice! ☺	N854WS	Helicopter (R44)			1 (1D)									2.0	2.0
10/5/2018 ANE STP Ferry, one St Paul tour, weathered out ☺	N134AA	Helicopter (R44)			1 (1D)									0.5	0.5
9/29/2018 STP 2 St Paul tours, 1 Twin Cities tour ☺	N134AA	Helicopter (R44)			3 (2D, 1N)		0.3							0.7	0.7
9/28/2018 ANE STP Ferry, River Tour, downtown St Paul tour ☺	N134AA	Helicopter (R44)			3 (2D, 1N)		0.1							1.0	1.0
9/23/2018 ANE STP Ferry and 1 St Paul tour ☺	N134AA	Helicopter (R44)			3 (3D)									0.7	0.7
9/22/2018 STP St Paul tour ☺	N134AA	Helicopter (R44)			1 (1D)									0.3	0.3
9/21/2018 ANE STP Ferry and 1 short tour ☺	N134AA	Helicopter (R44)			2 (2D)									0.5	0.5
9/15/2018 STP Twin cities tour ☺	N854WS	Helicopter (R44)			1 (1D)									0.5	0.5
9/14/2018 STP ANE Ferry	N854WS	Helicopter (R44)			2 (2N)		0.4							0.4	0.4
9/14/2018 ANE STP Ferry to Holman's	N854WS	Helicopter (R44)			1 (1D)									0.4	0.4
9/7/2018 ANE Aunt Joanne and uncle Mark flight	N134AA	Helicopter (R44)			3 (3D)									0.6	0.6
9/1/2018 ANE	N4170M	Helicopter (R22)			3 (3D)									1.1	1.1
8/5/2018 PARKERS PRAIRIE NOWTHEN Parker's prairie AirRides with Bob ☺	N107EH	Helicopter (R44)			3 (3D)	1.0								3.7	3.7
7/29/2018 FAR NOWTHEN Air rides Fargo Airshow and ferry home ☺	N107EH	Helicopter (R44)			3 (3D)	1.5								6.8	6.8
7/28/2018 FAR Fargo Airshow air rides with bob ☺	N107EH	Helicopter (R44)			3 (3D)									1.2	1.2
7/28/2018 FAR Fargo Airshow air rides with bob ☺	N107EH	Helicopter (R44)			3 (3D)									4.0	4.0
7/28/2018 FSD FAR Ferry ☺	N107EH	Helicopter (R44)			1 (1D)	2.3								2.3	2.3
6/20/2018 SUW ANE ☺	N134AA	Helicopter (R44)			3 (3N)	1.2	1.2							1.2	1.2
6/20/2018 ANE SUW ☺	N134AA	Helicopter (R44)			1 (1D)	1.4								1.4	1.4
6/17/2018 KANE KMIC Crystal father day air rides ☺	N134AA	Helicopter (R44)			3 (3D)									1.0	1.0
6/14/2018 D39 ANE Gre power line survey ☺	N134AA	Helicopter (R44)			2 (2D)	1.4								1.4	1.4
6/14/2018 D39 Gre power line survey ☺	N134AA	Helicopter (R44)			1 (1D)									2.3	2.3
6/14/2018 ANE STC D39 Gre power line survey ☺	N134AA	Helicopter (R44)			2 (2D)	2.8								2.8	2.8
6/13/2018 FFM STC ANE Gre power line survey ☺	N134AA	Helicopter (R44)			2 (2D)	2.1								2.1	2.1
6/13/2018 ANE STC FFM Gre power line survey ☺	N134AA	Helicopter (R44)			2 (2D)	2.8								2.8	2.8
6/5/2018 14Y STC ANE Gre powerline survey ☺	N134AA	Helicopter (R44)			2 (2D)	1.2								1.2	1.2
6/5/2018 Y63 14Y Gre powerline survey ☺	N134AA	Helicopter (R44)			1 (1D)	2.7								2.7	2.7

Flight▼	Tail	Cat/ Class /Type	Approaches	Hold	Landings ^[?]	X-C	Night	Sim. Inst.	IMC	Grnd. Sim.	Dual	CFI	SIC	PIC	Total
6/5/2018 ANE STC Y63 Gre powerline survey ☺	N134AA	Helicopter (R44)			2 (2D)	2.5								2.5	2.5
6/4/2018 LJF STC ANE Gre survey power line ☺	N134AA	Helicopter (R44)			2 (2D)	2.8								2.8	2.8
6/4/2018 ANE STC LJF Gre survey power line ☺	N134AA	Helicopter (R44)			2 (2D)	2.6								2.6	2.6
6/3/2018 ANE Airrides at DAD ☺	N854WS	Helicopter (R44)			3 (3D)									1.1	1.1
6/3/2018 ANE DAD airshow ☺	N4170M	Helicopter (R22)			2 (2D)									0.4	0.4
6/1/2018 Y63 ANE Mtx ferry ☺	N134AA	Helicopter (R44)			1 (1D)	1.5								1.5	1.5
5/31/2018 STC ANE Ferry ☺	N854WS	Helicopter (R44)			1 (1D)	0.7								0.7	0.7
5/31/2018 MML STC Gre powerline survey ☺	N854WS	Helicopter (R44)			1 (1D)	2.9								2.9	2.9
5/31/2018 STC MML Gre powerline survey ☺	N854WS	Helicopter (R44)			1 (1D)	2.4								2.4	2.4
5/31/2018 ANE STC Ferry ☺	N854WS	Helicopter (R44)			1 (1D)	0.8								0.8	0.8
5/15/2018 CNB ANE Nest checks ☺	N134AA	Helicopter (R44)			1 (1D)	1.6								1.6	1.6
5/15/2018 FRM CNB Nest checks ☺	N134AA	Helicopter (R44)			1 (1D)	3.1								3.1	3.1
5/15/2018 GGI FRM Nest checks ☺	N134AA	Helicopter (R44)			1 (1D)	2.6								2.6	2.3
5/15/2018 ANE GGI Nest checks west ☺	N134AA	Helicopter (R44)			1 (1D)	3.2								3.2	3.2
5/6/2018 ANE Minnetonka downtowns tour formation with longranger ☺	N134AA	Helicopter (R44)			3 (3D)									1.8	1.8
5/5/2018 ANE Two rounds in the pattern. No start up.	N7DQ	Helicopter			2 (2D)									0.1	0.1
4/25/2018 ANE Vikings training center photo flight ☺	N4170M	Helicopter (R22)			1 (1D)									1.0	1.0
4/19/2018 OVL ANE Olivia Survey project ☺	N7048C	Helicopter (R44)			1 (1N)	2.5	1.0							2.5	2.5
4/19/2018 OVL Olivia Survey project ☺	N7048C	Helicopter (R44)			1 (1D)									3.3	3.3
4/19/2018 ANE OVL Olivia Survey project ☺	N7048C	Helicopter (R44)			1 (1D)	3.3								3.3	3.3
4/17/2018 SPW ANE Upland prairie survey ☺	N7048C	Helicopter (R44)			1 (1N)	2.0	2.0							2.0	2.0
4/17/2018 SPW Upland prairie survey ☺	N7048C	Helicopter (R44)			1 (1D)									3.2	3.2
4/17/2018 SPW Upland prairie survey ☺	N7048C	Helicopter (R44)			1 (1D)									3.4	3.4
4/17/2018 ANE SPW Upland prairie survey ☺	N7048C	Helicopter (R44)			1 (1D)	1.5								1.5	1.5
4/12/2018 SPW ANE Upland prairie survey ☺	N7048C	Helicopter (R44)			1 (1D)	1.7								1.7	1.7
4/12/2018 SPW Upland prairie survey ☺	N7048C	Helicopter (R44)			1 (1D)									2.7	2.7
4/12/2018 SPW Upland prairie survey ☺	N7048C	Helicopter (R44)			1 (1D)									2.8	2.8
4/12/2018 SPW Upland prairie survey ☺	N7048C	Helicopter (R44)			1 (1D)									3.4	3.4
4/12/2018 ANE SPW Upland prairie survey - NEW OIL ☺	N7048C	Helicopter (R44)			1 (1D)	1.5								1.5	1.5
4/10/2018 OTG ANE Three waters survey project ☺	N7048C	Helicopter (R44)			1 (1N)	2.5	1.5							2.5	2.5
4/10/2018 MJQ OTG Three waters survey project ☺	N7048C	Helicopter (R44)			1 (1D)	3.4								3.4	3.4
4/10/2018 OTG MJQ Three waters survey project ☺	N7048C	Helicopter (R44)			1 (1D)	3.4								3.4	3.4
4/9/2018 OTG Three waters survey project ☺	N7048C	Helicopter (R44)			1 (1D)									3.4	3.4
4/9/2018 SHL OTG Three waters survey project ☺	N7048C	Helicopter (R44)			1 (1D)	3.4								3.4	3.4
4/9/2018 ANE SHL Three waters survey project ☺	N7048C	Helicopter (R44)			1 (1D)	3.2								3.2	3.2
4/6/2018 AEL ANE Ozatanka survey project ☺	N7048C	Helicopter (R44)			1 (1N)	1.2	1.2							1.2	1.2
4/6/2018 ACQ AEL Ozatanka survey project ☺	N7048C	Helicopter (R44)			1 (1D)	2.7								2.7	2.7
4/6/2018 SBU ACQ Ozatanka survey project ☺	N7048C	Helicopter (R44)			1 (1D)	3.1								3.1	3.1
4/5/2018 SBU Ozatanka survey project ☺	N7048C	Helicopter (R44)			1 (1D)									2.9	2.9
4/5/2018 SBU Ozatanka survey project ☺	N7048C	Helicopter (R44)			1 (1D)									3.3	3.3
4/5/2018 SBU Ozatanka survey project ☺	N7048C	Helicopter (R44)			1 (1D)									3.4	3.4
4/4/2018 SBU Ozatanka survey project ☺	N7048C	Helicopter (R44)			1 (1D)									2.8	2.8
4/4/2018 SBU Ozatanka survey project ☺	N7048C	Helicopter (R44)			1 (1D)									3.4	3.4
4/4/2018 ANE SBU Ozatanka survey project ☺	N7048C	Helicopter (R44)			1 (1D)	3.2								3.2	3.2
3/29/2018 MCW ANE Barton survey project ☺	N7048C	Helicopter (R44)			1 (1N)	2.1	1.1							2.1	2.1
3/28/2018 MCW Barton survey project ☺	N7048C	Helicopter (R44)			1 (1D)									1.1	1.1
3/28/2018 MCW Barton survey project ☺	N7048C	Helicopter (R44)			1 (1D)									3.0	3.0
3/28/2018 MCW Barton survey project ☺	N7048C	Helicopter (R44)			1 (1D)									3.3	3.3
3/27/2018 MCW Barton survey project ☺	N7048C	Helicopter (R44)			1 (1D)									2.5	2.5
3/27/2018 FXV MCW Barton survey project ☺	N7048C	Helicopter (R44)			1 (1D)									3.2	3.2

Flight▼	Tail	Cat/ Class /Type	Approaches	Hold	Landings ^[7]	X-C	Night	Sim. Inst.	IMC	Gmnd. Sim.	Dual	CFI	SIC	PIC	Total
3/27/2018 ANE FXY Barton survey project ☺	N7048C	Helicopter (R44)			1 (1D)	3.5								3.5	3.5
3/24/2018 ANE First flight with Josh downtown	N7048C	Helicopter (R44)			1 (1D)									0.7	0.7
3/24/2018 ANE Egg drop	N7048C	Helicopter (R44)			1 (1D)									0.3	0.3
3/23/2018 AEL ANE Bent tree 2 survey project ☺	N7048C	Helicopter (R44)			1 (1N)	3.1	1.1							3.1	3.1
3/23/2018 AEL Bent tree 2 survey project ☺	N7048C	Helicopter (R44)			1 (1D)									3.3	3.3
3/23/2018 AEL Bent tree 2 survey project ☺	N7048C	Helicopter (R44)			1 (1D)									2.8	2.8
3/22/2018 AEL Bent tree 2 project survey ☺	N7048C	Helicopter (R44)			1 (1D)									3.0	3.0
3/22/2018 AEL Bent tree 2 survey project ☺	N7048C	Helicopter (R44)			1 (1D)									3.4	3.4
3/22/2018 ANE AEL Bent Tree 2 survey project ☺	N7048C	Helicopter (R44)			1 (1D)	3.0								3.0	3.0
3/20/2018 MCW ANE Wild Rose survey project ☺	N7048C	Helicopter (R44)			1 (1N)	2.5	1.5							2.5	2.5
3/20/2018 MCW Wild Rose survey project ☺	N7048C	Helicopter (R44)			1 (1D)									3.2	3.2
3/20/2018 ANE MCW Wild Rose survey project ☺	N7048C	Helicopter (R44)			1 (1D)	3.0								3.0	3.0
3/17/2018 EGQ ANE Lost Island survey project ☺	N7048C	Helicopter (R44)			1 (1D)	3.3	1.3							3.3	3.3
3/17/2018 EGQ Lost Island survey project ☺	N7048C	Helicopter (R44)			1 (1D)									3.2	3.2
3/17/2018 ANE EGQ Lost Island survey project ☺	N7048C	Helicopter (R44)			1 (1D)	1.8								1.8	1.8
3/13/2018 ANE Downtown tour ☺	N7048C	Helicopter (R44)			1 (1D)									0.5	0.5
3/13/2018 ANE Downtown tour ☺	N7048C	Helicopter (R44)			1 (1D)									0.5	0.5
3/12/2018 ANE Downtown tour ☺	N7048C	Helicopter (R44)			1 (1N)		0.5							0.5	0.5
3/9/2018 VMR ANE Prairie Hill Raptor Survey ☺	N144RP	Helicopter (R44)			1 (1N)	2.3	2.3							2.3	2.3
3/9/2018 BBW VMR Prairie Hill Raptor Survey ☺	N144RP	Helicopter (R44)			1 (1N)	2.5	1.5							2.5	2.5
3/8/2018 BBW Prairie Hill Raptor Survey ☺	N144RP	Helicopter (R44)			1									3.5	3.5
3/8/2018 BBW Prairie Hill Raptor Survey ☺	N144RP	Helicopter (R44)			1									3.4	3.4
3/7/2018 0F4 BBW Prairie Hill Raptor Survey ☺	N144RP	Helicopter (R44)			1 (1D)	2.4								2.4	2.4
3/7/2018 K6K3 K0F4 Prairie Hill Raptor Survey ☺	N144RP	Helicopter (R44)			1 (1D)	3.0								3.0	3.0
3/7/2018 KANE K6K3 Prairie Hill Raptor Survey ☺	N144RP	Helicopter (R44)			1 (1D)	2.9								2.9	2.9
2/28/2018 DOWNTOWN TOUR ☺	N134AA	Helicopter (R44)			3 (3N)		0.5							0.5	0.5
2/27/2018 ANE Photo flight ☺	N134AA	Helicopter (R44)			3 (3D)									1.0	1.0
12/3/2017 ANE DOWNTOWN ANE ☺	N134AA	Helicopter (R44)			1 (1D)									0.6	0.6
10/4/2017 DOWNTOWN TOUR ☺	N7048C	Helicopter (R44)			1 (1D)									0.5	0.5
10/4/2017 TOUR ☺	N7048C	Helicopter (R44)			1 (1D)									1.0	1.0
9/29/2017 ANE FBL Turbine transition training ☺	N812SW	Helicopter			3 (3D)	1.0					1.0			1.0	1.0
9/22/2017 ANE DOWNTOWN ANE Tours ☺	N854WS	Helicopter (R44)			3 (3D)									1.3	1.3
8/2/2017 ANE Minnehahah academy explosion photo flight w/ Startribune ☺	N4170M	Helicopter (R22)			3 (3D)									0.9	0.9
6/27/2017 D39 STC ANE GRE survey then ferry flight ☺	N134AA	Helicopter (R44)			2 (2D)	1.7								1.7	1.7
6/27/2017 BWP D39 GRE powerline survey ☺	N134AA	Helicopter (R44)			1 (1D)	3.1								3.1	3.1
6/27/2017 STC BWP GRE survey ☺	N134AA	Helicopter (R44)			1 (1D)	3.5								3.5	3.5
6/27/2017 ANE STC Ferry ☺	N134AA	Helicopter (R44)			1 (1D)	0.7								0.7	0.7
6/23/2017 STC ANE Ferry ☺	N134AA	Helicopter (R44)			1 (1D)	0.7								0.7	0.7
6/23/2017 DTL STC GRE survey ☺	N134AA	Helicopter (R44)			1 (1D)	1.7								1.7	1.7
6/23/2017 STC DTL GRE survey ☺	N134AA	Helicopter (R44)			1 (1D)	3.0								3.0	3.0
6/23/2017 ANE STC Ferry ☺	N134AA	Helicopter (R44)			1 (1D)	0.8								0.8	0.8
6/16/2017 ANE Tour ☺	N854WS	Helicopter (R44)			1 (1D)									0.6	0.6
6/8/2017 MOX ANE GRE survey ☺	N134AA	Helicopter (R44)			2 (2D)	2.6								2.6	2.6
6/8/2017 STC MOX GRE survey ☺	N134AA	Helicopter (R44)			1 (1D)	2.3								2.3	2.3
6/8/2017 ANE STC Ferry ☺	N134AA	Helicopter (R44)			1 (1D)	0.8								0.8	0.8
5/31/2017 ANE GRE Survey ☺	N854WS	Helicopter (R44)			1 (1D)									1.6	1.6
5/27/2017 ANE ☺	N4170M	Helicopter (R22)			10 (10D)						1.1			1.1	1.1
5/24/2017 RWF ANE GRE Survey ☺	N854WS	Helicopter (R44)			2 (2D)	2.0								2.0	2.0
5/24/2017 ULM RWF GRE Survey ☺	N854WS	Helicopter (R44)			1 (1D)	3.0								3.0	3.0
5/24/2017 ANE ULM Ferry ☺	N854WS	Helicopter (R44)			1 (1D)	0.9								0.9	0.9

Flight▼	Tail	Cat/ Class /Type	Approaches	Hold	Landings [1]	X-C	Night	Sim. Inst.	IMC	Grnd. Sim.	Dual	CFI	SIC	PIC	Total
5/22/2017 STC ANE Ferry ⊕	N134AA	Helicopter (R44)			1 (1D)	0.8								0.8	0.8
5/22/2017 MML STC GRE survey ⊕	N134AA	Helicopter (R44)			1 (1D)	2.4								2.4	2.4
5/22/2017 STC MML GRE Survey ⊕	N134AA	Helicopter (R44)			1 (1D)	1.8								1.8	1.8
5/22/2017 ANE STC Ferry ⊕	N134AA	Helicopter (R44)			1 (1D)	0.8								0.8	0.8
5/18/2017 HON ANE Sweetland survey ⊕	N134AA	Helicopter (R44)			1 (1D)	2.8								2.8	2.8
5/18/2017 MKA HON Sweetland survey ⊕	N134AA	Helicopter (R44)			1 (1D)	1.7								1.7	1.7
5/18/2017 HON MKA Sweetland survey ⊕	N134AA	Helicopter (R44)			1 (1D)	3.3								3.3	3.3
5/18/2017 ANE HON Sweetland survey ⊕	N134AA	Helicopter (R44)			1 (1D)	2.4								2.4	2.4
5/3/2017 RST ANE Ferry ⊕	N854WS	Helicopter (R44)			1 (1N)	1.1	1.1							1.1	1.1
5/3/2017 MJQ RST Three waters survey completed ⊕	N854WS	Helicopter (R44)			1 (1D)	2.1								2.1	2.1
5/3/2017 MJQ Three waters survey continued ⊕	N854WS	Helicopter (R44)			1 (1D)									3.0	3.0
5/3/2017 RST MJQ Three waters survey ⊕	N854WS	Helicopter (R44)			1 (1D)	1.8								1.8	1.8
5/2/2017 RST Prairie survey cont ⊕	N854WS	Helicopter (R44)			1 (1D)									2.3	2.3
5/2/2017 AUM RST Prairie survey cont ⊕	N854WS	Helicopter (R44)			1 (1D)									3.4	3.4
5/2/2017 RST AUM Prairie survey ⊕	N854WS	Helicopter (R44)			2 (2D)									3.2	3.2
5/2/2017 ANE RST Ferry ⊕	N854WS	Helicopter (R44)			1 (1D)	1.0								1.0	1.0
4/21/2017 PQN ANE Fenton survey ⊕	N7048C	Helicopter (R44)			1 (1N)	1.7	1.7							1.7	1.7
4/21/2017 ANE PQN Fenton survey ⊕	N7048C	Helicopter (R44)			1 (1D)	2.5								2.5	2.5
4/19/2017 ABR LJF ANE Dakota Range Survey complete ⊕	N7048C	Helicopter (R44)			2 (1D, 1N)	3.6	2.6							3.6	3.6
4/18/2017 ABR Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)									2.7	2.7
4/18/2017 ABR Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)									3.1	3.1
4/18/2017 ATY ABR Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)	3.1								3.1	3.1
4/18/2017 ABR ATY Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)	2.9								2.9	2.9
4/17/2017 ATY ABR Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)	2.9								2.9	2.9
4/17/2017 VVV ATY Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)	3.3								3.3	3.3
4/17/2017 VVV Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)									3.4	3.4
4/17/2017 ANE 1D1 VVV Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			2 (2D)	1.7								1.7	1.7
4/14/2017 1D1 ANE Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)	1.9								1.9	1.9
4/14/2017 8D3 1D1 Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)	3.0								3.0	3.0
4/14/2017 ATY 8D3 Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)	1.8								1.8	1.8
4/13/2017 ATY Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)									2.5	2.5
4/13/2017 ATY Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)									0.6	0.6
4/12/2017 ATY Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)									2.2	2.2
4/12/2017 ATY Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)									3.2	3.2
4/12/2017 ATY Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)									3.4	3.4
4/11/2017 ATY Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)									2.9	2.9
4/11/2017 ATY Dakota Range Survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)									3.5	3.5
4/11/2017 FBL ATY Dakota Range Survey ⊕	N7048C	Helicopter (R44)			1 (1D)	2.9								2.9	2.9
4/10/2017 ANE FBL Mtx	N7048C	Helicopter (R44)			1 (1D)	0.7								0.7	0.7
4/7/2017 CIN ANE Heartland divide survey completed ⊕	N7048C	Helicopter (R44)			1 (1D)	2.0								2.0	2.0
4/6/2017 AIO CIN Heartland divide survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)	2.0								2.0	2.0
4/6/2017 CIN AIO Heartland divide survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)	3.2								3.2	3.2
4/6/2017 CIN Heartland divide survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)									2.6	2.6
4/5/2017 AIO HNR CIN Heartland divide survey ⊕	N7048C	Helicopter (R44)			2 (2D)	3.6								3.6	3.6
4/5/2017 EFW AIO Heartland divide survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)	3.5								3.5	3.5
4/5/2017 CIN EFW Heartland divide survey ⊕	N7048C	Helicopter (R44)			1 (1D)									3.5	3.5
4/4/2017 AIO CIN Heartland divide survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)	3.4								3.4	3.4
4/4/2017 AIO AIO Heartland divide survey ⊕	N7048C	Helicopter (R44)			1 (1D)									3.4	3.4
4/4/2017 CIN AIO Heartland divide survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)	3.4								3.4	3.4
4/3/2017 CIN CIN Heartland divide survey continued ⊕	N7048C	Helicopter (R44)			1 (1D)									3.3	3.3

Flight▼

4/2/2017 ANE CIN Heartland divide survey ☺

	Tail	Cat/ Class /Type	Approaches	Hold	Landings [?]	X- C	Night	Sim. Inst.	Grnd. IMC	Sim.	Dual	CFI	SIC	PIC	Total
4/2/2017 ANE CIN Heartland divide survey ☺	N7048C	Helicopter (R44)			1 (1D)	2.4								2.4	2.4
4/1/2017 ANE Checkout with chris	N7048C	Helicopter (R44)			2 (2D)									0.5	0.5
3/5/2017 ANE ☺	N4170M	Helicopter (R22)			2 (2D)						1.0			1.0	1.0
2/19/2017 ANE ☺	N7195E	Helicopter (R22)			3 (3D)						1.1			1.1	1.1
1/12/2017 FBL ANE Mtx run	N4170M	Helicopter (R22)			1 (1D)	0.8								0.8	0.8
12/30/2016 DOWNTOWN TOUR First customers! ☺	N854WS	Helicopter (R44)			1 (1D)									0.6	0.6
12/28/2016 FBL ANE Mtx run	N7195E	Helicopter (R22)			1 (1D)	0.8								0.8	0.8
12/28/2016 ANE FBL Mtx run	N4170M	Helicopter (R22)			1 (1D)	0.9								0.9	0.9
12/27/2016 ANE Autos, VRS, hover autos, sim engine failures, slopes, hydraulics off. Earned R44 PIC endorsement from Nick Mildon	N854WS	Helicopter (R44)			3 (3D)						1.2			1.2	1.2
12/22/2016 ANE DOWNTOWNS Transition training and tour practice	N854WS	Helicopter (R44)			3 (3D)						1.5			1.5	1.5
12/22/2016 ANE CBB ANE Transition training and tour practice	N854WS	Helicopter (R44)			3 (3D)	2.5					2.5			2.5	2.5
12/7/2016 TOA RHC Safety Course with Jared	N777UH	Helicopter (R22)			7 (7D)						1.0			1.0	1.0
11/25/2016 ANE Commercial checkride passed with Cody Bosek ☺	N4170M	Helicopter (R22)			3 (3D)									0.6	0.6
11/21/2016 ANE Deficiency flight with Jon. Pinnacle, running landings, hover auto. All great. Do that.	N4170M	Helicopter (R22)			3 (3D)						0.6			0.6	0.6
11/21/2016 ANE Commercial Checkride failed	N4170M	Helicopter (R22)			3 (3D)									1.6	1.6
11/20/2016 ANE Checkride prep	N4170M	Helicopter (R22)			3 (3D)						1.3			1.3	1.3
11/19/2016 ANE Checkride prep	N4170M	Helicopter (R22)			3 (3D)						1.1			1.1	1.1
11/17/2016 ANE Checkride prep	N4170M	Helicopter (R22)			3 (3D)						1.0			1.0	1.0
11/16/2016 ANE Checkride prep	N4170M	Helicopter (R22)			3 (3D)						1.1			1.1	1.1
11/8/2016 Nick Mildon	N4170M	Helicopter (R22)			3 (3D)						1.0			1.0	1.0
11/5/2016 ANE	N4170M	Helicopter (R22)			3 (3D)						1.0			1.0	1.0
10/22/2016 ANE 47.37NORTH93.54WEST ANE	N7195E	Helicopter (R22)			3 (3D)	2.3					2.3			2.3	2.3
10/19/2016 ANE VibX	N7195E	Helicopter (R22)			3 (3D)						1.2			1.2	1.2
10/18/2016 ANE	N7195E	Helicopter (R22)			3 (3D)						1.4			1.4	1.4
10/15/2016 ANE DOHERTYS 12Y ANE	N7195E	Helicopter (R22)			3 (3D)	2.1					2.1			2.1	2.1
10/13/2016 ANE	N7195E	Helicopter (R22)			3 (3D)						1.3			1.3	1.3
10/11/2016 ANE	N7195E	Helicopter (R22)			3 (3D)						1.4			1.4	1.4
10/5/2016 ANE Pattern	N4170M	Helicopter (R22)			3 (3D)						1.2			1.2	1.2
10/3/2016 ANE	N4170M	Helicopter (R22)			5 (3D, 2N)	0.2					1.2			1.2	1.2
10/2/2016 ANE	N4170M	Helicopter (R22)			3 (3D)						1.3			1.3	1.3

10/22/2016 ANE 47.37NORTH93.54WEST ANE	N7195E	Helicopter (R22)	3 (3D)	2.3		2.3	2.3	2.3
10/19/2016 ANE VibX	N7195E	Helicopter (R22)	3 (3D)			1.2	1.2	1.2
10/18/2016 ANE	N7195E	Helicopter (R22)	3 (3D)			1.4	1.4	1.4
10/15/2016 ANE DOHERTYS 12Y ANE	N7195E	Helicopter (R22)	3 (3D)	2.1		2.1	2.1	2.1
10/13/2016 ANE	N7195E	Helicopter (R22)	3 (3D)			1.3	1.3	1.3
10/11/2016 ANE	N7195E	Helicopter (R22)	3 (3D)			1.4	1.4	1.4
10/5/2016 ANE Pattern	N4170M	Helicopter (R22)	3 (3D)			1.2	1.2	1.2
10/3/2016 ANE	N4170M	Helicopter (R22)	5 (3D, 2N)	0.2		1.2	1.2	1.2
10/2/2016 ANE	N4170M	Helicopter (R22)	3 (3D)			1.3	1.3	1.3
9/29/2016 ANE DOWNTOWN ANE Flight with Andy from PACCAIR	N4170M	Helicopter (R22)	1 (1D)				1.1	1.1
9/13/2016 DOWNTOWN With Brittany	N4170M	Helicopter (R22)	1 (1D)				1.1	1.1
9/8/2016 ANE	N4170M	Helicopter (R22)	3 (3D)			1.1	1.1	1.1
9/1/2016 ANE 10 takeoffs and 10 landings at airport with operating control tower ☺	N4170M	Helicopter (R22)	15 (15N)	2.8			2.8	2.8
8/28/2016 ANE MIC FCM LVN SGS STP 21D RNH ANE Solo night requirements ☺	N4170M	Helicopter (R22)	8 (8N)	2.2	2.2		2.2	2.2
8/24/2016 ANE Pattern. Autos higher and better	N7195E	Helicopter (R22)	3 (3D)			1.3	1.3	1.3
8/21/2016 ANE SUW ANE	N4170M	Helicopter (R22)	2 (2D)	3.2		3.2	3.2	3.2
8/19/2016 ANE Hit TR skid on runway while flaring for Autorotation	N4170M	Helicopter (R22)	3 (3D)			0.5	0.5	0.5
8/17/2016 ANE Pattern	N4170M	Helicopter (R22)	3 (3D)			1.6	1.6	1.6
8/14/2016 ANE	N4170M	Helicopter (R22)	3 (3D)			1.0	1.0	1.0
8/14/2016 ANE Failed engine rpm tach	N7195E	Helicopter (R22)				0.1	0.1	0.1
8/13/2016 ANE PETESCHRECK ICEBERG DUSTINS ANE W/ Katie	N7195E	Helicopter (R22)	1 (1D)				0.9	0.9
8/12/2016 ANE Pattern	N7195E	Helicopter (R22)	3 (3D)			1.6	1.6	1.6
8/11/2016 ANE Pattern	N7195E	Helicopter (R22)	3 (3D)			1.7	1.7	1.7
8/6/2016 Downtown MPLS with Katie	N7195E	Helicopter (R22)	1 (1D)				0.5	0.5
8/5/2016 ANE Pattern	N7195E	Helicopter (R22)	3 (3D)			1.7	1.7	1.7
8/2/2016 ANE Pattern work	N7195E	Helicopter (R22)	3 (3D)			1.1	1.1	1.1
7/30/2016 ANE W14 ANE Ray's 1st heli ride ☺	N4170M	Helicopter (R22)	3 (3D)	2.1			2.1	2.1
7/28/2016	N4170M	Helicopter (R22)	3 (3D)			1.0	1.0	1.0
7/19/2016 ANE ☺	N4170M	Helicopter (R22)	3 (3D)				1.1	1.1

Flight▼	Tail	Cat/ Class /Type	Approaches	Hold	Landings ^[?]	X-C	Night	Sim. Inst.	IMC	Grnd. Sim.	Dual	CFI	SIC	PIC	Total
7/12/2016 ANE STP STC 2hr dual night XC commercial requirement ☺	N4170M	Helicopter (R22)			3 (3N)	2.2	2.2							2.2	2.2
6/29/2016 ANE ☺	N7195E	Helicopter (R22)			3 (3D)						1.2			1.2	1.2
6/27/2016 ANE Manuevers	N4170M	Helicopter (R22)			3 (3D)						1.2			1.2	1.2
6/20/2016 ANE	N7195E	Helicopter (R22)			3 (3D)						1.2			1.2	1.2
6/9/2016 MSP STP TOUR Dad and lynn	N7195E	Helicopter (R22)			2 (2D)									1.2	1.2
6/2/2016 ANE 10D WI14 ANE ☺	N4170M	Helicopter (R22)			3 (3D)	2.4								2.4	2.4
6/1/2016 ANE ANE	N4170M	Helicopter (R22)			3 (3D)						1.5			1.5	1.5
5/26/2016 ANE ANE Off airport at Dustin's	N4170M	Helicopter (R22)			3 (3D)						1.2			1.2	1.2
5/24/2016 ANE ANE First left seat flight. ☺	N4170M	Helicopter (R22)			3 (3D)						1.3			1.3	1.3
5/19/2016 ANE 10D WI14 ANE ☺	N4170M	Helicopter (R22)			3 (3D)	1.9								1.9	1.9
5/18/2016 ANE ANE ☺	N4170M	Helicopter (R22)			3 (3D)						1.3			1.3	1.3
5/16/2016 ANE ANE	N4170M	Helicopter (R22)			3 (3D)						0.9			0.9	0.9
5/15/2016 ANE ANE	N4170M	Helicopter (R22)			3 (3D)						1.2			1.2	1.2
5/14/2016 ANE RNH ANE	N4170M	Helicopter (R22)			2 (2D)	1.4								1.4	1.4
5/12/2016 Pattern work	N7195E	Helicopter (R22)									1.2			1.2	1.2
5/5/2016 ANE RNH ANE	N4170M	Helicopter (R22)			2	1.2					1.2			1.2	1.2
5/3/2016 Wind 19 gusting 26 ☺	N7195E	Helicopter (R22)			10 (10D)						1.0			1.0	1.0
5/1/2016 KANE ☺	N4170M	Helicopter (R22)			3 (3D)						1.5			1.5	1.5
4/29/2016 ANE PNM CBG ANE ☺	N4170M	Helicopter (R22)			3 (3D)	1.2								1.2	1.2
4/26/2016 ANE->RNH->ANE Bravo airspace experience via downtown tour.	N4170M	Helicopter (R22)			2 (2D)	1.4					1.4			1.4	1.4
4/23/2016 ANE -> MKT->GYL->ANE Circled Prince's studio, Paisley Park. Confined area landing. ☺	N4170M	Helicopter (R22)			4 (4D)	2.5					2.5			2.5	2.5
4/17/2016 ANE OEO ANE First passenger flight	N4170M	Helicopter (R22)			2 (2D)	1.2								1.2	1.2
4/13/2016 KANE SURFSIDE KANE ☺	N4170M	Helicopter (R22)			12 (12D)						1.3			1.3	1.3
4/12/2016 ANE ANE ☺	N4170M	Helicopter (R22)			7 (7D)						1.2			1.2	1.2
3/29/2016 ANE->PNM->ANE PNM RNAV 33 twice ANE RNAV 18 ☺	N4170M	Helicopter (R22)	3		2 (2D)	2.2		1.8			2.2			2.2	2.2
3/8/2016 ANE->CBG->PNM->ANE ☺	N4170M	Helicopter (R22)			3 (3D)	2.1		1.8			2.1			2.1	2.1
3/1/2016 KANE ->KCBG->KANE 1st time simulated Instrument with Foggies ☺	N4170M	Helicopter (R22)			3 (3D)	1.9		1.5			1.9			1.9	1.9
2/16/2016 KANE -> KANE ☺	N7195E	Helicopter (R22)			10 (10D)						1.4			1.4	1.4
12/27/2015 KANE -> KANE ☺	N7195E	Helicopter (R22)			10 (10D)						1.4			1.4	1.4
10/24/2015 KANE -> KANE Passed Helicopter PPL checkride with John McLaughlin ☺	N7195E	Helicopter (R22)			4 (4D)						1.0			1.0	1.0
10/23/2015 KANE -> KANE with Rob checkride prep. Went over everything.	N7195E	Helicopter (R22)			10 (10D)						1.1				1.1
10/22/2015 KANE -> KANE with Nick Checkride Prep	N7195E	Helicopter (R22)			8 (8D)						1.1				1.1
10/21/2015 KANE -> KANE ☺	N7195E	Helicopter (R22)			12 (12D)						1.4				1.4
10/20/2015 KANE -> KANE ☺	N7195E	Helicopter (R22)			12 (12D)						1.4				1.4
10/19/2015 KANE -> KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.3				1.3
10/15/2015 KANE -> KANE with Nick ☺	N7195E	Helicopter (R22)			6 (6D)						1.5				1.5
10/5/2015 KANE -> KANE ☺	N7195E	Helicopter (R22)			9 (9D)						1.1				1.1
10/2/2015 KANE -> KANE ☺	N7195E	Helicopter (R22)			8 (8D)									1.1	1.1
9/30/2015 KANE -> KANE ☺	N7195E	Helicopter (R22)			7 (7N)			1.4			1.4				1.4
9/29/2015 Kane -> KSTC 1st Night XC ☺	N7195E	Helicopter (R22)			4 (4N)	1.7	1.7				1.7				1.7
9/28/2015 KANE->KROS->KANE ☺	N7195E	Helicopter (R22)			6 (6D)	1.8								1.8	1.8
9/25/2015 KANE->KCBG->KSTC->KANE ☺	N7195E	Helicopter (R22)			3 (3D)	1.6								1.6	1.6
9/22/2015 KANE->KCBG->KSTC->KANE ☺	N7195E	Helicopter (R22)			3 (3D)	1.6								1.6	1.6
9/21/2015 KANE->KROS->KANE ☺	N4170M	Helicopter (R22)			4 (4D)	2.0					2.0				2.0
9/19/2015 KANE->KCBG->KSTC->KANE 1st cross country ☺	N4170M	Helicopter (R22)			3 (3D)	2.0					2.0				2.0
9/14/2015 KANE -> KANE ☺	N4170M	Helicopter (R22)			8 (8D)									1.6	1.6
9/12/2015 KANE -> KANE ☺	N4170M	Helicopter (R22)			3 (3D)						0.2			1.6	1.8
9/10/2015 KANE -> KANE FIRST SOLO! ☺	N4170M	Helicopter (R22)			8 (8D)						0.7			0.7	1.4
9/8/2015 KANE -> KANE ☺	N4170M	Helicopter (R22)			8 (8D)						1.4				1.4
9/4/2015 KANE -> KANE ☺	N4170M	Helicopter (R22)			8 (8D)						1.2				1.2

Flight▼	Tail	Cat/ Class /Type	Approaches	Hold	Landings ^[?]	X-C	Night	Sim. Inst.	IMC	Grnd. Sim.	Dual	CFI	SIC	PIC	Total
8/27/2015 KANE → KANE ☺	N4170M	Helicopter (R22)			10 (10D)						1.7				1.7
8/17/2015 KANE → KANE ☺	N4170M	Helicopter (R22)			8 (8D)						1.4				1.4
8/14/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.4				1.4
8/12/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			10 (10D)						1.3				1.3
8/10/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.4				1.4
8/7/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.1				1.1
8/5/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.1				1.1
7/27/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.2				1.2
7/23/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.4				1.4
7/22/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.1				1.1
7/21/2015 KANE → KANE	N7195E	Helicopter (R22)			8 (8D)						1.2				1.2
7/20/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						0.9				0.9
7/14/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.1				1.1
7/13/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.1				1.1
7/10/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.0				1.0
7/9/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.2				1.2
7/2/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			11 (11D)						1.1				1.1
7/1/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.3				1.3
6/30/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			9 (9D)						1.3				1.3
6/29/2015 KANE → KANE	N7195E	Helicopter (R22)			3 (3D)						1.3				1.3
6/25/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.5				1.5
6/24/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.4				1.4
6/23/2015 KANE → KANE ☺	N7195E	Helicopter (R22)			8 (8D)						1.3				1.3
6/17/2015 KANE → KANE Low Rotor RPM ☺	N7195E	Helicopter (R22)			6 (6D)						1.4				1.4
6/16/2015 KANE → KANE Low Rotor RPM ☺	N7195E	Helicopter (R22)			8 (8D)						1.3				1.3
6/10/2015 KANE → KANE Low Rotor RPM ☺	N4170M	Helicopter (R22)	6		5						1.2				1.2
6/9/2015 KANE → KANE ☺	N7195E	Helicopter (R22)	1		1						1.2				1.2
6/1/2015 KANE → KANE ☺	N7195E	Helicopter (R22)	4		4						1.2				1.2
5/27/2015 KANE → KANE ☺	N4170M	Helicopter (R22)			1						1.0				1.0

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Helicopter:	25.3
25 Landings (24 Day, 1 Night)	
Helicopter (R22):	255.2
697 Landings (642 Day, 41 Night), 14 Approaches	
Helicopter (R44):	664.8
664 Landings (538 Day, 124 Night)	
Helicopter [Total for all]:	945.3
1,386 Landings (1,204 Day, 166 Night), 14 Approaches	
Cross-Country Time over 50nm:	292.7
Landings - Night, towered Airport:	22
Left Seat Time:	21.0
Low Level Time:	351.1
Night Cross-country Time:	29.7
Photo Time:	18.9
Solo Time:	85.2
Survey Time:	350.5
Takeoffs - Night:	59
Takeoffs - Night, Towered airport:	23
Touring Time:	127.1
Turbine - PIC/Total:	25.3
Cross Country:	423.6
Night:	69.0
Simulated Instrument:	5.1
Dual:	151.0
PIC:	890.0
Total Time:	945.3
1,386 Landings (1,204 Day, 166 Night), 14 Approaches	

Important notes

Helicopter - Passengers	Current Until: 6/29/2020
Helicopter (R22) - Passengers	Current Until: 4/20/2020
Helicopter (R22) - Night	Expired: 11/30/2016 (Short by 3 Landings)
Helicopter (R44) - Passengers	Current Until: 6/29/2020
Helicopter (R44) - Night	Current Until: 5/22/2020
Helicopter - Night	Current Until: 5/22/2020
Flight Review (SFAR73/R22)	Current Until: 12/31/2020
Flight Review (SFAR73/R44)	Current Until: 12/31/2020
Flight Review	Current Until: 12/31/2020