

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 1
 LINE No.(s) 64 PARTY No. 1182 DATE 10 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myces WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1			Take Off														
2	N	3620	89°	37'01"				13/16	44		Elev	62.1		SP101			
3	"	3620	170°	22'40"							-8.8	53.3	Δ				53.3
4	"	2360	90°	03'56"									Δ				
5	"	960	92°	05'08"							-4.7	48.6	-	102			
6											-36.9	16.4	-	103			
7	S	360							HI								103+960 X
8	"	1680	88°	58'21"							-12.8	40.5	-	104			
9	"	1680	271°	01'27"							+20.0	73.3	○	105			73.3
10	N	1320	Level										○				
11	"	1320	90°	10'16"							+9.0	82.3	Δ				82.3
12													Δ				
13	S	1320							HI		-5.1	77.2	-	106			X
14	"	2640									-6.5	75.8	-	107			
15	"	3960	89°	51'50"							-3.2	79.1	-	108			
16	"	3960	270°	08'18"									○	109			88.5
17	N	2640	89°	24'55"							+4.2	86.5	○				
18	"	2640	270°	34'29"							-16.6	69.9	Δ				69.9
19	"	1320	89°	28'24"									Δ				
20									HI		+7.0	62.9	-	110			
											-5.1	64.8	-	111			X

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STADIA SURVEY NOTES

AREA NPR-4 STATE OR PROVINCE Alaska PAGE No. 5
 LINE No.(s) 64 PARTY No. 1182 DATE 10 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3		2640	89°	58' 34"				5.0		+4.3	67.7	65.8	Δ			70.1
4		2640	270°	00' 50"				5.0		+4.1			Δ			
5		1320						2.9		-2.9		67.0	-	130		
6								5.1	H1	-5.1		64.8	-	131		X
7		1320						5.8		-5.8		64.1	-	132		
8		2640	90°	02' 19"				5.0		-7.1		62.8	○	133		63.0
9		2640	269°	57' 20"				5.0					○			
10		940						6.9		+6.9	67.7		Δ			62.8
11		940	90°	07' 00"				5.0					Δ			
12																
13		380						13.8		-13.8		55.9	○	134		X
14		1710	90°	26' 20"				5.0		-18.3		51.9	○	135		51.6
15		1710	269°	33' 15"				5.0					○			
16		2120	89°	49' 36"				14.0		+7.9	59.3		Δ			59.3
17		2120	270°	09' 51"				14.0					Δ			
18		800						8.8		-8.8		50.5	-	136		
19																
20		520						13.5		-13.5		45.8	-	137		X

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 3
 LINE No.(s) 64 PARTY No. 1182 DATE 10 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadio Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												71.9				
2															120	71.9
3								7.3		+2.2	79.1		Δ			79.1
4		620	90°	10'55"				5.0					Δ ₁			
5		1580	89°	28'14"				5.0		+2.4		88.5	⊙	Tri Sta Carletta	885	
6		1580	270°	31'16"				5.0					⊙			
7												86.0			Carletta Elev	
8												+2.5			midle	
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR - 4 STATE or PROVINCE Alaska PAGE No. 4
 LINE No.(s) 64 PARTY No. 1182 DATE 10 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN _____ WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1			Take off tri			STA	C	Carlotta		Elev		86.0				
2																
3		1580	89° 28' 40"					5.0		-9.4	76.6	Δ			76.6	
4		"	270° 31' 28"					5.0				Δ				
5		1280						5.7		-5.7	70.9	○	121		70.9	
6		1280	90° 01' 54"		check			5.0				○				
7	N	2640	89° 49' 07"					7.0		+1.0		Δ			69.9	
8	"	2640	270° 10' 17"					7.0		-1.1	69.8	Δ				
9	"	1320						0.7		-0.7	69.1	-	122			
10							41	5.1		-5.1	64.7	-	123		π	
11	S	1320						6.5		-6.5	63.3	-	124			
12	"	2640	90° 01' 00"					5.0		+6.8	63.9	○	125		63.9	
13	"	2640	269° 58' 43"					5.0		-5.9		○				
14	N	2640	89° 58' 36"					5.0		+4.1	62.9	Δ			68.0	
15	"	2640	270° 01' 10"					5.0		+4.0		Δ				
16	"	1320						5.1		-5.1	62.8	-	126			
17							41	4.9		-4.9	63.0	-	127		π	
18	S	1320						6.8		-6.8	61.1	-	128			
19	"	2640	89° 56' 02"					5.0		+2.2	65.8	○	129		65.8	
20	"	2640	270° 03' 45"					5.0		-2.1		○				

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 2
 LINE No.(s) 64 PARTY No. 1182 DATE 10 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1										69.9					
2	S	1320						14.7	-14.7	55.2	-	112			
3	"	2640	89°	59'14"				10.0	-9.6	60.3	0	113	69.2		
4	"	2640	270°	00'32"				10.0			0				
5	N	1320						13.7	+13.7	74.0	Δ		74.0		
6	"	1320	90°	09'29"				10.0			Δ				
7							H1	5.2	-5.2	68.8	-	114	π		
8	S	1320						6.8	-6.8	67.2	-	115			
9	"	2640	89°	55'36"				10.0	-6.8	67.2	0	116	69.2		
10	"	2640	270°	04'17"				10.0			0				
11	N	2640						7.6	+7.9	75.1	Δ		75.1		
12	"	2640	89°	57'17"				10.0			Δ				
13	"	1320						5.7	-5.7	69.4	-	117			
14							H1	5.0	-5.0	70.1	-	118	π		
15	S	1320						4.1	-4.1	71.0	-	119			
16	"	2640	89°	57'19"				5.0	-3.2	71.9	0	120	71.9		
17	"	2640	270°	02'20"				5.0			0				
18	E	1980						4.2	+4.2		Δ				
19	E	1980	90°	27'15"				5.0			Δ				
20							H1	4.2	-4.2				π TRI STA Carletta		

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 6
 LINE No.(s) 64 PARTY No. 1182 DATE 10 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G Myees WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1											59.3					
2		1840	90°	16'42"				5.0		-14.0		45.3	○	138	45.5	
3		1840	269°	43'12"				5.0					○			
4	10.3	860	90°	44'26"				6.0		+17.3	62.5		△		62.8	
5		860	269°	14'32"				6.0					△			
6		460						11.4		-11.4		51.2	○	139	51.4	
7	12.3	460	90°	10'40"				10.0					○			
8		1815	90°	28'30"				3.8		+19.1	70.3		△		70.6	
9		1815	269°	30'50"				3.8					△			
10		495	91°	33'41"				3.8		-17.3		53.0	-	140		
11															π	
12		825	90°	41'21"				5.0		-14.9		55.4	-	141		
13		2145	89°	59'34"				14.0		-13.8		52.5	○	142	52.7	
14		2145	270°	00'25"				14.0					○			
15																
16																
17		1431	89°	56'04"				5.0		+3.5	60.0		△		60.2	
18		1431	270°	03'34"				5.0					△			
19																
20									HI	5.2		54.8	△	238	Line 56 52.0	

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 7
 LINE No.(s) 64 PARTY No. 1182 DATE 11 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER Cold, Windy, Miserable P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1																
2																Mashed Pipe at
3	N	2640	90°	03'07"				3.8		+6.2	62.7	Δ	142		Intersection L-64	
4	"	2640	269°	57'09"				3.8		+6.1	62.6	Δ			and L-56	
5	"	1320	90°	06'37"				3.8		-6.4		-	143		56.7	
6								HI 5.2								
7	S	1320	89°	51'10"				3.8		-0.4		○	144		56.3	
8	"	1320	270°	08'49"				3.8			62.2	○	145			
9	N	1320	90°	07'31"				3.8		+6.8	69.0	Δ			63.1	
10	"	1320	269°	52'12"				3.8				Δ				
11								HI 5.2								
12	S	1320	90°	00'34"				5.0		-5.3		-	146		56.1	
13	"	2640	90°	02'31"				5.0		-7.0		○	148			
14	"	2640	269°	57'37"				5.0		-6.9		○				
15	N	2640	90°	02'38"				3.8	+5.7	+5.8		Δ			50.3	
16	"	2640	269°	57'41"				3.8			67.8	Δ				
17	"	1320	90°	06'13"				3.8		-6.2		-	149			
18								HI 5.2								
19	S	1320	90°	00'32"				5.0		-5.2		-	150		56.8	
20	"	2640	89°	55'07"				5.0		-1.5		○	152			

TI-5888 " 2640 270° 04'38" 5.0 -1.3 } 66.5 ○
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STADIA SURVEY NOTES

AREA N.P.R-4 STATE or PROVINCE ALASKA PAGE No. 8
 LINE No.(s) 64 PARTY No. 182 DATE 13 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR N. HELANDER RODMAN MYERS WEATHER: -30 P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1																
2																
3								5.2				64.8				
4	East	1540.25	89°	57'00"		H-1-	52	3.4	+8.0			66.5	152	X		
5		✓	270°	03'16"				3.4				62.8	○	△ Janet	73.0	
6												74.5	○		Tic	<u>+1.5</u>
7								4.7				71.0		Janet	X	
8	West	1540.25	90°	03'28"		H-1-	42	3.8	+8.0				○	152		
9		✓	289°	56'00"				3.8	+8.0			65.0	○			
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA N.P.R. - 4 STATE OR PROVINCE ALASKA PAGE No. 9
 LINE No.(s) 69 PARTY No. 182 DATE 14 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR H. HELANDER RODMAN MYERS WEATHER: -30 P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1				<i>take off</i>												
2	South	2640	89° 43' 54"										78.2			<i>SP-207</i>
3	"	2640	270° 15' 50"									100.4				
4	"	1320	89° 48' 21"										101.1		206	
5													95.2		205	<i>π</i>
6	North	1320	90° 19' 32"										87.9		204	
7	"	2640	89° 48' 31"										94.6		203	
8	"	2640	270° 11' 17"													
9	S	2145	89° 41' 46"													
10	"	2145	270° 18' 15"													
11	"	825	90° 34' 53"										85.5		202	
12															201+	495 <i>π</i>
13	N	495	90° 47' 00"										85.9		201	
14	"	1815	90° 10' 15"										87.3		200	
15	"	3135	89° 56' 21"										86.5		199	
16	"	3135	270° 03' 31"													
17	S	1320	90° 00' 00"													
18	"	1320	269° 59' 50"													
19	N	1320	89° 59' 38"													<i>π 98 = 95.8</i>
20	"	1320	269° 59' 52"													

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 10
 LINE No.(s) 64 PARTY No. 1182 DATE 14 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1												86.5				
2	S	2640	89°	39' 18"				14.5	-1.4	-1.3	} 85.2		Δ			↑
3	"	2640	270°	20' 27"				14.5	-1.2					Δ		
4	"	1320	89°	55' 41"				3.8		-2.1		83.1	-	196		
5								HI 5.2		-5.2		80.0	-	195	π	
6	N	1320	90°	02' 42"				5.0		-6.0		79.2	-	194		
7	"	2640	89°	48' 53"				14.5	-6.0	-6.1		79.1	⊙	193		
8	"	2640	270°	10' 51"				14.5	-6.2				⊙			
9	S	2640	89°	49' 34"				14.5	+6.5	+6.5	} 85.6		Δ			
10	"	2640	270°	10' 30"				14.5	+6.4					Δ		
11	"	1320	90°	07' 10"				3.8		-6.6		79.0	-	192		
12								HI 5.1		-5.1		80.5	-	191	π	
13	N	1320	90°	05' 10"				5.0		-7.0		78.6	-	190		
14	"	2640	89°	50' 56"				14.5	-7.5	-7.7		77.9	⊙	189		
15	"	2640	270°	08' 36"				14.5	-7.9				⊙			
16	S	1815	89°	54' 04"				14.5	+11.4	+11.3	} 89.2		Δ			
17	"	1815	270°	06' 07"				14.5	+11.3					Δ		
18	"	495	90°	50' 45"				3.8		-11.1		78.1	-	188		
19															π	
20	N	825	90°	36' 23"				5.0		-13.7		75.5	-	187		

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2nd _____

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 11
 LINE No.(s) 64 PARTY No. 1182 DATE 14 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												89.2				
2	N	2145	89°	59'07"				14.5	-13.7	-14.1		75.1	0	186	↑	
3	"	2145	270°	00'23"				14.5	-14.3				0			
4	S	2640	89°	49'25"				14.5	+6.4	+6.3		81.4	Δ			
5	"	2640	270°	10'50"				14.5	+6.2				Δ			
6	"	1320	90°	04'41"				3.8		-5.6		75.8	-	185		
7								5.2		-5.2		76.2	-	184		X
8	N	1320	90°	02'15"				5.0		-5.9		75.5	-	183		
9	"	2640	89°	43'56"				14.5	-2.2	-2.0		79.4	0	182		
10	"	2640	270°	16'22"				14.5	-1.9				0			
11	S	2640	90°	11'40"				14.5	+23.5	+23.5		102.9	Δ			
12	"	2640	269°	48'17"				14.5	+23.5				Δ			
13	"	1320	90°	16'40"				3.8		-10.2		92.7	-	181		
14								5.2		-5.2		97.7	-	180		X
15	N	1320	89°	57'46"				5.0		-9.1		98.8	-	179		
16	"	2640	89°	41'36"				14.5	-0.4	-0.4		102.5	0	178		
17	"	2640	270°	18'27"				14.5	-0.3				0			
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 12
 LINE No.(s) 64 PARTY No. 1182 DATE 14 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

13.35
10.00
3.35
7.15
5.37
2.15

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST	ROD		
1															
2	N	670	89°	06' 34"				14.5	+ 4.1	+ 4.1	107.7	102.5	178		To Page 11 SP26 line 62.6 Lake 106.0 Intersection lines 62.6 & 64 Marker Pipe
3	"	670	270°	53' 08"				14.5	+ 4.1		106.6				
4	W	430						4.3	3.7	- 3.7	99.9				
5	NW	870						0.5	- 0.5	- 0.6	107.1				
6	"	870	89°	43' 03"				5.0	- 0.7						
7								HI							
8															
9															
10															
11															
12															
13	S	2640	89°	26' 14"				14.5	- 11.4	- 11.4	92.2	103.6	178	L-64	
14	"	2640	270°	33' 35"				14.5	- 11.3						
15	"	1320	89°	49' 21"				3.8		+ 0.3	92.5		177		
16								HI		- 5.2	87.0		176	K	
17	N	1320	90°	08' 20"				5.0		- 8.2	84.0		175		
18	"	2640	90°	01' 40"				14.5	- 15.8	- 15.9	76.3		174		
19	"	2640	269°	58' 08"				14.5	- 15.9						
20															

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2nd _____

STADIA SURVEY NOTES

AREA NPR-4 STATE OR PROVINCE _____ PAGE No. 13
 LINE No.(s) 64 PARTY No. 1182 DATE 14 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2													76.3	174		A
3	S	2640	✓					2.7		+2.7	79.0		Δ			
4	"	2640	89°	50' 27"				10.0	+2.7					Δ		
5	"	1320	90°	07' 47"				3.8		-6.8		72.2	-	173		
6								5.2		-5.2		73.8	-	172		X
7	N	1320	89°	59' 04"				5.0		-4.6		74.4	-	171		
8	"	2640	✓					3.5		-3.5		75.5	○	170		
9	"	2640	89°	51' 35"				10.0	-3.5				○			
10	S	2640	✓					6.5		+6.5	82.0		Δ			
11	"	2640	89°	55' 37"				10.0	+6.6					Δ		
12	"	1320	90°	07' 50"				3.8		-6.8		75.2	-	169		
13								5.2		-5.2		76.8	-	168		X
14	N	1320	90°	10' 41"				5.0		-9.1		72.9	-	167		
15	"	2640	90°	01' 24"				14.5	-15.6	-15.6		66.4	○	166		
16	"	2640	269°	58' 27"				14.5	-15.7				○			
17	S	2640	✓					5.3		+5.3	71.7		Δ			
18	"	2640	89°	53' 47"				10.0	+5.2					Δ		
19	"	1320	70°	03' 22"				3.8		-5.1		66.6	-	165		
20								5.2		-5.2		66.5	-	164		X

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2nd _____

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 14
 LINE No.(s) 64 PARTY No. 1182 DATE 14 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

L J	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD				
1																	
2																	
3	N	1320	90°	02'15"				5.0		-5.9		71.7	65.8	-	163		
4	"	2640	✓					5.8		-5.8			65.9	⊙	162		
5	"	2640	89°	54'34"				10.0		-5.8				⊙			
6	S	2640	✓					5.6		+5.7		71.6		Δ			
7	"	2640	89°	54'30"				10.0		+5.8				Δ			
8	"	1320	90°	06'17"				3.8		-6.2			65.4	-	161		
9								5.2	HI	-5.2			66.4		160	X	
10	N	1320	89°	55'35"				5.0		-3.3			68.3	-	159		
11	"	2640	89°	50'36"				14.5		-7.3			64.0	⊙	158		
12	"	2640	270°	08'41"				14.5		-7.8				⊙			
13	S	2640	✓					2.0		+2.0		66.0		Δ			
14	"	2640	89°	49'43"				10.0		+2.1				Δ			
15	"	1320	90°	04'15"				3.8		-5.4			60.6	-	157		
16								5.2	HI	-5.2			60.8		156	X	
17	N	1320	89°	56'02"				5.0		-3.5			62.5	-	155		
18	"	2640	✓					6.3		-6.3			59.7	⊙	154		
19	"	2640	89°	55'07"				10.0		-6.2				⊙			
20																	

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CHECKED BY 1st _____

2nd _____

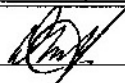
STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 15
 LINE No.(s) 64 PARTY No. 1182 DATE 14 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Holander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	S	1320	✓													
4	"	1320	90°	17'40"												
5								HI								
6	N	1320	✓													
7	"	1320	89°	50'55"												
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 16
 LINE No.(s) 64 PARTY No. 1182 DATE 15 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myras WEATHER: _____ P.T.S. No. _____

W L	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc- tion	Center Hair			INST.	ROD			
1																
2																
3	E	980							10.6	+10.6	+10.0	108.2	98.2	Δ	207	Refer Page 9
4	"	980	90° 15' 28"						5.0	+9.4				Δ ₁		
5		0						HI	4.7				103.5		Tech	TA 103
6																
7																
8																
9																
10																
11																
12																
13																
14																
15	NW	940	89° 32' 05"						5.0	-2.6	-2.6	100.4	103.0	Δ		
16	"	✓	270° 27' 40"						5.0	-2.6				Δ ₁		
17		0							HI	5.1	-5.1		95.3		208	TA
18	S	1320	✓						7.3		-7.3		93.1	-	209	
19	"	2640	87° 55' 00"						10.0	-6.2	-6.5		93.9	○	210	
20	"	2640	270° 04' 10"						10.0	-6.0				○ ₁		

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 17
 LINE No.(s) 64 PARTY No. 1182 DATE 15 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD		
1															
2												93.9		210	
3	N	2640	90°	56' 57"				10.0	+15.3	+15.7	109.6				
4	"	2640	269°	52' 13"				10.0	+16.0						
5	"	1320						12.6		-12.6		97.0	-	211	
6								5.2		-5.2		104.4		212	κ
7	S	1320	90°	58' 21"				10.0		-24.7		84.9	-	213	
8	"	2640	90°	08' 28"				10.0	-16.5	-16.7		92.9	0	214	
9	"	2640	269°	51' 07"				10.0	-16.8				0		
10	N	3465	90°	12' 50"				10.0	+22.7	+23.1	116.0				
11	"	3465	269°	46' 48"				10.0	+23.3						
12	"	2145	90°	16' 33"				10.0		-20.3		95.7	-	215	
13	"	0825	✓					14.0		-14.0		102.0	-	216	
14								8.0						216+825	κ
15	S	495						8.0		-8.0		108.0	-	217	
16	"	1815						11.7		-11.7		104.3	-	218	
17	"	3135						6.8		-6.8		109.2	0	219	
18	"	3135	89°	56' 36"				10.0	-6.9				0		
19	N	2640	89°	09' 00"				14.5	-24.7	-24.6	84.6				
20	"	2640	270°	50' 51"				14.5	-29.5						

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2nd _____

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 18
 LINE No.(s) 64 PARTY No. 1182 DATE 15 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helandee RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1																
2				(51)						-1.5	84.6	(79.4)	221	T	186 line 226	
3	N	1320	89°	01'00"				5.0		+11.6		83.7	-	220		702-1320
4	"	2640	89°	51'46"				5.0	+1.3	+1.2		85.8	0	228		9) 102
5	"	2640	27°	08'00"				5.0	+1.1				0			
6	N	2640	89°	27'00"				10.0	-15.3	-15.0	72.8		Δ			
7	"	2640	27°	32'10"				10.0	-14.7				Δ			
8	"	1320	89°	34'05"				5.0		+5.0		75.8	-	228		
9	S	1320	90°	23'50"				5.2		-5.2		65.6	-	225	T	
10	"	1320	90°	23'50"				10.0		-19.2		51.6	-	226		
11	"	2640	90°	11'08"				5.0	-13.5	-13.6		57.2	0	227		
12	"	2640	267°	48'45"				5.0	-13.6				0			
13	N	1815	✓					11.7		+11.7	68.9		Δ			
14	"	1815	90°	12'57"				5.0	+11.8				Δ			
15	"	495	✓					9.7		-9.7		59.2	-	228		
16														228+495	T	
17	S	825	90°	22'23"				10.0		-15.4		53.5	-	229		
18	"	2145	90°	16'35"				5.0	-15.3	-15.6		53.3	0	230		
19	"	2145	267°	42'44"				5.0	-15.8				0			
20																

TI-558B

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2nd _____

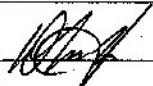
STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 19
 LINE No.(s) 64 PARTY No. 1182 DATE 15 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2												53.3			230	
3	N	2805	70°	38'10"				10.0	+41.1	+40.9	} 94.2			Δ		
4	"	2805	269°	22'28"				10.0	+40.6						Δ	
5	"	1485	90°	46'44"				10.0		-30.2		64.0		-	231	
6	"	165						8.8		-8.8		85.4		-	232	
7															232 + 165	X
8	S	1155	89°	27'31"				5.0		+5.9		100.1		-	233	
9	"	2475	89°	32'00"				10.0	+10.2	+10.0	} 20.2	104.2		⊙	234	
10	"	2475	270°	28'36"					+9.9						⊙	
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 20
 LINE No.(s) 64 PARTY No. 1182 DATE 16 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1																
2																
3	N	2640	89°	43' 28"				14.5	+1.8	+2.1	} 106.3	104.2		234		
4	"	2640	270°	15' 47"				14.5	+2.9					Δ		
5	"	1320	90°	05' 22"				14.5		-16.6		89.7	-	235		
6		0														
7	S	1320	89°	29' 40"				5.2		-5.2		101.1	-	236	X	
8	"	2640	89°	42' 54"				14.5	-1.4	-1.8	} 104.5	103.4	-	237		
9	"	2640	270°	16' 00"				14.5	-2.2				104.5	0	238	
10	N	2640	90°	07' 57"				14.5	+20.6	+20.9	} 125.4					
11	"	2640	269°	51' 15"				14.5	+21.2					0		
12	"	1320	90°	08' 55"				14.5		-17.9		107.5	-	239		
13		0														
14	S	1320	89°	52' 35"				5.2		-5.2		120.2	-	240	X	
15	"	2640	89°	57' 36"				14.5		-11.7	} 112.5	113.7	-	241		
16	"	2640	270°	01' 46"				14.5	-12.7	-12.9			112.5	0	242	
17	N	2640	✓					9.0	+9.0	+9.0	} 121.5					
18	"	2640	90°	05' 06"				5.0	+8.9					0		
19	"	1320	✓					5.9		-5.9		114.8	-	243		
20	NE	1760	89°	41' 26"				5.0	+4.5	+4.3		125.8	-	243	Δ Pappo 125.0	

TI-555B " 1760 270° 17' 54"

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5.0 +4.2
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Tie +0.8

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 21
 LINE No.(s) 64 PARTY No. 1182 DATE 16 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Holander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1																
2																
3																
4																
5												120.7				
6		0						HI	5.2		-5.2	115.5			244	K
7	S	1320	✓						6.9		-6.9	113.8			245	
8	"	2640	89°	54'52"					5.0	-1.1	-1.4	118.6	○		246	
9	"	2640	270°	04'18"					5.0	-1.7			○			
10	N	2640	✓						7.1		+7.1	125.7	Δ			
11	"	2640	90°	02'37"					5.0	+7.0			Δ			
12	"	1320	✓						10.6		-10.6	115.1	-		247	
13		0						HI	5.2		-5.2	120.5			248	K
14	S	1320	✓						13.0		-13.0	112.7	-		249	
15	"	2640	90°	08'56"					10.0	-16.9	-17.3	108.4	○		250	
16	"	2640	269°	49'48"					10.0	-17.8			○			
17	N	2640	✓						11.2	+11.2	+11.2	119.6	Δ			
18	"	2640	70°	08'00"					5.0	+11.1			Δ			
19	"	1320	✓						9.5		-9.5	110.1	-		251	
20		0									-5.2	119.4			252	K

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2nd _____

STADIA SURVEY NOTES

AREA VPR - 4 STATE or PROVINCE Alaska PAGE No. 22
 LINE No.(s) 64 PARTY No. 1182 DATE 16 Day 2 Mo. 76 Yr. BOOK No.
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1																
2												119.6				
3	S	1320	89°	20' 12"				10.0	+5.3	+5.1		124.7	⊙	253		
4	"	1320	270°	38' 40"				10.0	+9.8				⊙			
5	N	1320	✓					7.4		+7.4		132.1	Δ			
6	"	1320	89°	53' 05"				10.0	+7.3				Δ			
7		0														
8	S	1320	✓					5.2		-5.2		126.9		254	π	
9	"	2640	✓					4.1		-4.1		128.0	-	255		
10	"	2640	89°	56' 30"				7.3		-7.3		124.8	⊙	256		
11	N	2640	✓					10.0	-7.3				⊙			
12	"	2640	89°	57' 26"				3.2	+3.2	+3.1		122.9	Δ			
13	"	2640	89°	57' 26"				5.0	+3.0				Δ			
14	"	1320	✓					13.4		-13.4		114.5	-	257		
15		0														
16	S	1320	✓					5.2		-5.2		122.7		258	π	
17	"	2640	90°	08' 24"				11.5		-11.5		116.4	-	259		
18	"	2640	269°	50' 23"				10.0	-16.5	-16.9		111.0	⊙	260		
19	N	2640	89°	34' 00"				10.0	-17.0				⊙			
20	"	2640	270°	25' 00"				10.0	-10.0	-9.6		102.4	Δ			
21	"	2640	89°	31' 35"				10.0	-9.2				Δ			
22	"	1320	89°	31' 35"				5.0		+5.9		107.3	-	261		

TI-5888

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20.8
89°33'40"

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE _____ PAGE No. 23
 LINE No.(s) 64 PARTY No. 1182 DATE 16 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadio Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												101.4			
2		0						HI	5.2		-5.2	96.2		262	X
3	S	1320							6.3		-6.3	95.1	-	263	
4	"	2640	90°	04'56"					10.0	-13.8	-14.1	87.3	0	264	
5	"	2640	269°	54'20"					10.0	-14.4			0		
6	N	2640	✓						2.0	+2.0	+2.0	89.3	Δ		
7	"	2640	89°	49'25"					10.0	+2.9			Δ		
8	"	1320	90°	26'10"					10.0		-20.0	69.3	-	265	
9		0						HI	5.2		-5.2	84.1	-	266	X
10	S	1320	90°	26'10"	Level				10.0	13.1	-13.1	76.2	-	267	
11	"	2640	✓						6.3	-6.3	-6.4	82.9	0	268	
12	"	2640	89°	55'25"					10.0	-6.5				0	
13															
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 24
 LINE No.(s) 64 PARTY No. 1182 DATE 17 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD				
1				Take	Off	Tel	Sta										
2										Elev		169.0				Tie - 0.4	
3												168.6					
12.9	SE	1780	89°	43'05"				5.0	-3.8	-3.8	164.8		Δ				
	"	1780	270°	17'12"				5.0	-3.9				Δ				
	NW		✓					11.0		-11.0		153.8	○				
13.7	"	1740	90°	12'00"				5.0	-11.1				○				
14.5	SE	2500	89°	56'40"				2.0	-0.4	-0.3	153.5		Δ				
	"	2500	270°	06'31"				5.0	-0.3				Δ				
10		0						HI		-5.2		148.3			299	τ	
11	N	1320	✓					8.7		-8.7		144.8	-		298		
12	"	2640	✓					11.3	-11.3	-11.5		142.0	○		297		
13	"	2640	90°	08'42"				5.0	-11.7				○				
14	S	2640	89°	25'00"				14.5	-12.4	-12.4	129.6		Δ				
15	"	2640	270°	35'08"				14.6	-12.5				Δ				
16	"	1320	89°	31'45"				14.6		-3.7		125.9	-		296		
17		0						HI		-5.2		124.9			295	τ	
18	N	1320	89°	36'26"				14.6		-5.6		124.0	-		294		
19	"	2640	89°	46'12"				14.6	-4.0	-4.1		125.5	○		293		
20	"	2640	270°	13'40"				14.6	-4.1				○				

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 25
 LINE No.(s) 64 PARTY No. 1182 DATE 17 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helandee RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD				
1																	
2																	
3	S	2640	89°	46' 32"				14.6	+4.3	+4.4	} 129.9	125.5					
4	"	2640	270°	13' 08"				14.6	+4.5					Δ			
5	"	1320	89°	40' 30"				14.6		-7.1		122.8	-	292		↑	
6		0								-5.2		124.7		291	⊥		
7	N	1320	89°	51' 30"				14.6		-11.3		118.6	-	290			
8	"	2640	89°	53' 50"				14.6	-9.9	-10.0		119.9	0	289			
9	"	2640	270°	05' 50"				14.6	-10.1				0				
10	S	2640	89°	41' 48"				14.6	+0.6	+0.7	} 120.6						
11	"	2640	270°	18' 00"				14.6	+0.8								
12	"	1320	89°	25' 20"				14.6		-1.3		119.3	-	288			
13		0								-5.2		115.9		287	⊥		
14	N	1320	89°	22' 35"				14.6		-0.2		120.9	-	286			
15	"	2640	89°	40' 40"				14.6	+0.2	0.0	} 120.6						
16	"	2640	270°	18' 43"				14.6	-0.2					0	285		
17	S	2640	89°	57' 00"				14.6	+12.3	+12.6	} 133.2						
18	"	2640	270°	02' 30"				14.6	+12.8								
19	"	1320	89°	53' 20"				14.6		-12.0		121.2	-	284			
20		0								-5.2		128.0		283	⊥		

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 26
 LINE No.(s) 64 PARTY No. 1182 DATE 17 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1																
2												133.2				
3	N	1320	89°	40' 31"				14.6		-7.1		126.1	-	282		↑
4	"	2640	89°	54' 14"				14.6	-10.2	-10.3		122.9	⊙	281		
5	"	2640	270°	05' 30"				14.6	-10.4				⊙			
6	S	2640	89°	49' 20"				14.6	+6.4	+6.4		129.3	Δ			
7	"	2640	270°	10' 35"				14.6	+6.5				Δ			
8	"	1320	89°	40' 20"				14.6		-7.0		122.3	-	280		
9	O							5.2		-5.2		124.1	-	279	κ	
10	N	1320	90°	21' 52"				14.6		-23.0		106.3	-	278		
11	"	2640	90°	18' 21"				14.6	-28.7	-28.8		100.5	⊙	277		
12	"	2640	269°	41' 21"				14.6	-28.9				⊙			
13	S	2640	89°	51' 51"				14.6	+8.4	+8.6		109.1	Δ			
14	"	2640	270°	07' 32"				14.6	+8.8				Δ			
15	"	1320	89°	38' 34"				14.6		-6.4		102.7	-	276		
16	O							5.2		-5.2		103.9	-	275	κ	
17	N	1320	89°	54' 44"				14.6		-12.6		96.5	-	274		
18	"	2640	90°	10' 30"				14.6	-22.7	-23.0		86.1	⊙	273		
19	"	2640	269°	48' 33"				14.6	-23.4				⊙			
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 27
 LINE No.(s) 64 PARTY No. 1182 DATE 17 Day 2 Mo. 76 Yr. BOOK No. _____
 SURVEYOR W. Helander RODMAN G. Myers WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	S	2640	89° 45' 28"					14.6	+3.4	+3.7	89.8	86.1	Δ			
4	"	2640	270° 13' 50"					14.6	+4.0				Δ			
5	"	1320	89° 31' 50"					14.6		-3.8		86.0	-	272		
6		0						5.2		-5.2		84.6		271	π	
7	N	1320	89° 33' 27"					14.6	-4.4	-4.5		85.3	⊙	270		
8	"	1320	270° 26' 00"					14.6	-4.6				⊙			
9	S	1320	89° 23' 03"					14.6	+0.4	+0.5	85.8		Δ			
10	"	1320	270° 36' 20"					14.6	+0.7				Δ			
11		0						5.2		+5.2		80.6		269	π	
12	N	1320	89° 29' 16"					14.6	-2.8	-2.9		82.9	⊙	268		
13	"	1320	270° 30' 18"					14.6	-3.0				⊙			
14																
15																
16																
17																
18																
19																
20																

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