

STAT SURVEY NOTES

AREA NPR 4 STATE OF Alaska PAGE No. 134  
 LINE No.(s) B-3 PARTY No. 1182 DATE 17 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D Helander RODMAN D May WEATHER: 20 clear 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	Correction	Center Hair			INST.	ROD			
1																
2																
3																
4	SW	220	-						5.2	5.2	5.2	37.3				INT. B10+R3 SP7
5				270°10'					5.8							
6		240	-						5.6		5.6	31.7		126	32.6	- 1.1
7		225	-						5.9		5.3	32.0		127	31.8	+ .2
8		440	-						5.6		5.6	31.7		6		
9		660	-						6.3		6.3	31.0		5		
10		880	-						7.1		7.1	30.2		4		
11		1100	-						8.5		8.5	28.8		3		
12		1320	-						9.2		9.2	28.1		2		
13		1540	-						10.8		10.8	26.5		1		
14		1705	-						11.0		11.0	26.3		TS 4		
15		1925	-						11.1		11.1	26.2		8		
16		2145	-						11.2		11.2	26.1		12		
17		2365	-						10.5		10.5	26.8		16		
18		2585	-						10.0		10.0	27.3		20		
19		2805	-						10.0		10.0	27.3		24		
20																

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2nd \_\_\_\_\_

## STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE Alaska PAGE No. 135  
 LINE No.(s) B 3 PARTY No. 1182 DATE 17 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D Helander RODMAN D May WEATHER: -20° clear 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												37.3				
2		0	—								5.6	5.6	31.7		8	
3	NE	220	—								6.4	6.4	30.7		9	
4		440	—								7.5	7.5	29.8		10	
5		660	—								8.2	8.2	29.1		11	
6		880	—								9.9	9.9	27.4		12	
7		1100	—								14.1	14.1	23.2		13	
8		1320	—								14.2	14.2	23.1		14	
9		1540	—								14.3	14.3	23.0		15	
10		1760	—								14.4	14.4	22.9		16	
11		1980	—								14.3	14.3	23.0		17	
12		2200	—								10.5	10.4 10.5	26.8	0	18	
13				269°50'							4.3			✓		
14	SW															
15		1980	—								4.2	4.1 4.2	31.0	A		
16				270°10'							10.2			✓		
17		1760	—								9.5	9.5	20.5		19	
18		1540	—								8.0	8.0	23.0		20	
19		1320	—								8.1	8.1	22.9		21	
20																

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## STADIA SURVEY NOTES

AREA NPR4 STATE or PROVINCE Alaska PAGE No. 136  
 LINE No.(s) B-3 PARTY No. 1182 DATE 17 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D Helander RODMAN D May WEATHER: -20° clear 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.			
1											31.0				
2		1100	—					6.5	6.5		24.5		22		
3		880	—					5.8	5.8		25.2		23		
4		660	—					6.0	6.0		25.		24		
5		440	—					6.1	6.1		24.9		25		
6		220	—					6.0	6.0		25.		26		
7		0	—					5.10	5.1		25.9		27		
8	NR	220	—					5.5	5.5		25.5		28		
9		440	—					4.9	4.9		26.1		29		
10		660	—					4.8	4.8		26.2		30		
11		880	—					4.8	4.8		26.2		31		
12		1100	—					5.0	5.0		26.		32		
13		1320	—					5.1	5.1		25.9		33		
14		1540	—					4.5	4.5		26.5		34	Intersection Diag.	
15		1760	—					4.1	4.1		26.9		35	pg. 132	
16		1940	—					6.1	6.1		24.9		161	B-10A 23.2 + 1.7	
17		1200	—					6.3	6.3		24.7		162	B-10A 23.3 + 1.4	
18		1865	—					6.5	6.4	6.5	24.5	⊙	35+107		
19				270°10'				12.1				✓			
20															

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## STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE Alaska PAGE No. 137  
 LINE No.(s) B-3 PARTY No. 1182 DATE 17 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D Helander RODMAN D May WEATHER: -20° clear P.T.S. No. \_\_\_\_\_

LINE	Searing 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	Correction	Center Hair			INST.	ROD			
1													24.5			
2	SW	2310	-			T	9.4			2.3	2.2	22.3		Δ		
3				270°10'					4.7					✓		
4		2200	-			T	11.1	11.0			0.1		22.2		36	
5		1980	-						4.0		4.0		18.8		37	
6		1760	-						3.5		3.5		19.8		38	
7		1540	-						2.0		2.0		20.3		39	
8		1320	-						3.5		3.5		18.8		40	
9		1100	-						4.9		4.9		17.4		41	
10		880	-						5.3		5.3		17.0		42	
11		660	-						5.4		5.4		16.9		43	
12		440	-						5.5		5.5		16.8		44	
13		220	-						5.6		5.6		16.7		45	
14		0	-						5.6		5.6		16.7		46	
15	NE	220	-						5.8		5.8		16.5		47	
16		440	-						5.9		5.9		16.4		48	
17		660	-						5.8		5.8		16.5		49	
18		880	-						5.8		5.8		16.5		50	
19		1100	-						5.8		5.8		16.5		51	
20																

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## STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 138  
 LINE No.(s) B 3 PARTY No. 1182 DATE 17 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D Helander RODMAN D May WEATHER: -20° clear 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	Correction	Center Hair			INST.	ROD			
1												22.3				
2	NE	1320										17.3			52	
3		1540										17.9			53	
4		1760										19.2			54	
5		1980										18.9			55	
6		2200										18.7			56	
7		2420								3.6	3.8	18.5		0	57	
8				270°10'											✓	
9																
10	SW	2640								4.0	3.9	4.1	22.6		Δ	
11				270°10'											✓	
12		2470										18.4			58	
13		2700										18.3			59	
14		1980										18.3			60	
15		1760										17.0			61	
16		1540										14.9			62	
17		1320										9.5			63	
18		1100										9.4			64	
19		880										9.3			65	
20																

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## STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE Alaska PAGE No. 139  
 LINE No.(s) B3 PARTY No. 1182 DATE 18 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D Helander RODMAN D May WEATHER: -20° clear 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												22.6				
2		660											15.1		66	
3		440											16.2		67	
4		220											15.7		68	
5		0											17.0		69	
6	NE	220											16.8		70	
7		440											17.1		71	
8		660											17.2		72	
9		880											15.7		73	
10		1100											15.1		74	
11		1320											14.1		75	
12		1540											13.4		76	
13		1760											12.2		77	
14		1980											11.7		78	
15		2200											11.7		79	
16		2420											11.6	0	80	
17				269.50							10.9	11.0		✓		
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA NPR 4 STATE or PROVINCE Alaska PAGE No. 140  
 LINE No. (s) B-3 PARTY No. 1182 DATE 18 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D Helander RODMAN D May WEATHER: -20° clear 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													11.6			
2	SW	1260							4.8	4.1	4.2	15.8		↘		
3				27010					9.5					↘		
4		1540							5.4				10.4		81	E B11 (Diagram
5		1320							5.5				10.3		82	shows on B11
6		1100							5.5				10.3		83	
7		890							5.5				10.3		84	
8		660							5.5				10.3		85	
9		440							5.5				10.3		86	
10		220							5.5				10.3		87	
11		0							5.6				10.2		88	
12	NEL	220							5.5				10.3		89	
13		440							5.5				10.2		90	
14		660							5.5				10.3		91	
15		890							5.5				10.3		92	
16		1100							5.5				10.3		93	
17		1320							5.5				10.3		94	
18		1540							5.3	5.3	5.4		10.5	0	95	
19				27016					10.0					✓		
20																

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## STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE Alaska PAGE No. 141  
 LINE No.(s) B-3 PARTY No. 1182 DATE 18 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D Helander RODMAN D May WEATHER: clear -20° 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													10.5			
2	SW	1760							7.0	6.9	3.0	17.5		Δ		
3				270°10'					12.3					✓		
4		1540							6.9				10.6		96	
5		1320							5.5				12.0		97	
6		1100							5.5				12.0		98	
7		880							5.5				12.0		99	
8		660							5.5				12.0		100	
9		440							5.5				12.0		101	
10		220							5.5				12.0		102	
11		0							5.6				11.9		103	
12	NE	220							5.3				11.2		104	
13		440							5.0				12.5		105	
14		660							5.0				12.5		106	
15		880							5.0				12.5		107	
16		1100							5.0				12.5		108	
17		1320							5.0				12.5		109	
18		1540					T	10.6		2.9	-3.0		14.5	⊙	110	
19				270°10'					7.6					✓		
20																

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## STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE Alaska PAGE No. 142  
 LINE No.(s) B-3 PARTY No. 1182 DATE 1P Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D Helander RODMAN D May WEATHER: -20° clear 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												14.5				
2	SW	440				T	4.7			2.5	2.5	16.8		Δ		
3				270° 16'										√		
4		220											11.5		111	
5		0											11.2		112	
6	NE	225								5.3	5.3		11.4	⊙	113+4	L-B3 INT. L-B12
7				270° 10'										√		SP 41+190
8																<del>105 + 0.2</del>
9	SW	2420				T	13.3			1.1	1.2	12.6		Δ		
10				270° 10'										√		
11		2760											10.9		141	L-B12 11.9 - 1.0
12		2500											10.7		142	L-B12 11.9 - 1.2
13		2200											10.4		114	
14		1980											10.6		115	
15		1760											10.7		116	
16		1540											10.9		117	
17		1320											10.6		118	
18		1100											10.0		119	
19		880											8.8		120	
20																

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 143  
 LINE No.(s) B-3 PARTY No. 1182 DATE 18 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D Helander RODMAN D May WEATHER: -20° clear 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												12.6				
2		660										8.2			121	
3		440										8.6			122	
4		220										8.5			123	
5		0										7.0			124	
6	NE	220										8.8			125	
7		440										9.0			126	
8		660										9.2			127	
9		880										9.5			128	
10		1100										9.5			129	
11		1320													130	
12		1540													131	
13		1760								4.8	5.0	7.7	0		132	
14				270°10									✓			
15												1.9			134	
16												1.3			138	
17												1.6			12	
18												1.6			16	
19												1.6			20	
20												1.6				

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**STADIA SURVEY NOTES**

AREA NPR4 STATE or PROVINCE Alaska PAGE No. 144  
 LINE No.(s) B-3 PARTY No. 1182 DATE 18 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D Helander RODMAN D May WEATHER: -20° clear 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																
2	<u>S</u>	<u>610</u>	/									<u>7.7</u>				
3				<u>270°10'</u>						<u>7.7</u>	<u>7.8</u>	<u>15.4</u>				<u>Δ</u>
4																
5	<u>N</u>	<u>305</u>	/													
6				<u>270°10'</u>												
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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