

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 1  
 LINE No.(s) 58 PARTY No. 1122 DATE 25 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JAMES WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	SEAMAN 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 TRI STA									47.0				
2																←
3	SE	23296.8	89°	56' 16"				5.6	+8.4			108.9	⊙	TBM'D'		
4	"	"	270°	04' 44"				5.6	15.3				⊙			
5		0						4.8						SAXON	⌘	
6	NW	23296.8	90°	06' 36"				4.3	+62.2	+61.9			Δ			
7	"	"	269°	53' 30"				4.3	+61.5				Δ			
8		0						5.4						TBM'D'	⌘	
9	SE	7007.2	90°	00' 44"				5.8	-8.3			108.3	⊙	TBM'C'		
10	"	"	269°	59' 15"				5.8	-7.3				⊙			
11	NW	7007.2	90°	00' 20"				5.6					Δ			
12	"	"	270°	00' 10"				5.6					Δ			
13		0						5.6						TBM'C'	⌘	
14	E	17805.6	90°	00' 10"				5.8				113.4	⊙	TBM'B'		
15	"	"	270°	00' 30"				5.8					⊙			
16	W	17805.6	90°	02' 04"				5.8					Δ			
17	"	"	269°	58' 35"				5.8					Δ			
18		0						3.3		-5.3				TBM'B'	⌘	
19	E	16820	90°	01' 40"				3.8		-17.9			-	SP 1125		
20	"	18140	90°	01' 30"				3.8		-18.6			-	1124		

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 852  
 LINE No.(s) 58 PARTY No. 1182 DATE 27 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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									5.6				132.8		1117	
3		2640	89°	10' 10"					5.8	-32.3	-32.2	100.6		0		THESE
4			270°	49' 44"					5.8	-32.2				0		SHOT CHECK
5															1115	& WITH THOSE
6		2640	90°	01' 35"					4.0	-5.4	-5.2		95.4	0	1113	DONE ORIGINALLY
7			269°	58' 58"					4.0	-5.0				0		ON P. 2
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. 2  
 LINE No.(s) 58 PARTY No. 1182 DATE 26 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JOHNS 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												119.2				
2	W														1122+495	
3	"	3135	89°	46' 11"				5.2	-7.2	-7.2	112.0		Δ			112
4	"	3135	270°	13' 55"				5.2	-7.3				Δ			
5	"	2640	89°	51' 05"				4.0		+2.7			-	1121		
6	"	1320	90°	13' 00"				4.0		-9.0			-	1120		
7		0														
8	E	1320	99°	59' 44"				5.4		-5.4				1119		π
9	"	2640	89°	45' 22"				4.0		-3.9			-	1112		
10	"	2640	270°	35' 25"				5.9	+20.5	120.8		132.8	0	1117		yes 132.8
11	W	2040	89°	11' 22"				5.9	21.1				0			
12	"	2640	270°	49' 00"				5.9	-31.3	-31.4	101.4		Δ			101.4
13	"	1320		✓				5.9	-31.6				Δ			
14		0						2.0		-2.0			-	1116		
15	E	1320	90°	07' 33"				5.4		-5.4			-	1115		π
16	"	2640		✓				4.0		-6.9			-	1114		
17	"	2640	89°	55' 25"				6.4		-6.5		94.9	0	1113		94.9
18	"	2640	89°	55' 25"				10.0	-6.6				0			
19	"	2640	90°	07' 33"				11.0		+11.0			Δ			
20	"	2640	90°	07' 33"				5.0	11.0		105.9		Δ			105.9
21	"	1320	70°	08' 00"				4.0		-7.5			-	1112		

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 1.5  
 LINE No.(s) 58 PARTY No. 1182 DATE 25 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JOHNS 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	E	19460	90°	01'20"					3.8		-19.3			-	1123	
4	E	20285.1	89°	59'05"					5.2			119.2		⊙	1122+495	
5	"	"	270°	01'27"					5.2					⊙		
6	W	20285.1	90°	03'10"					5.8					⊙		
7	"	"	219°	57'55"					5.8					⊙		
8		0									-5.2				1122 + 495	TV
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. 3  
 LINE No.(s) 58 PARTY No. 1182 DATE 26 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JOHNS 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	Correc-tion	Center Hair			INST.	ROD		
1															
2															
3		0						H1	5.4		-5.4			1113	π
4	E	1320	90°	06'45"					4.0		-6.6			-	1110
5	"	2640	✓						7.0	-7.0	-7.0	98.9	⊙	1109	98.9
6	"	2640	90°	02'30"					5.0	-7.1			⊙		
7	W	2415	✓						7.1	+7.1	+7.2	106.1	Δ		106.1
8	W	2415	90°	03'00"					5.0	+7.3			Δ		
9	"	1320	90°	08'00"					4.0		-6.7		-	1108	
10		0													
11	E	165	92°	18'30"					4.0		-10.6			-	1107
12	"	1485	90°	11'35"					4.0		-9.0			-	1106
13	"	2805	✓						11.6	-11.6	-11.6	94.5	⊙	1105	94.5
14	"	2805	90°	11'55"					10.0	-11.7			⊙		
15	W	2640	90°	06'55"					10.0	+15.5	15.5	110.0	Δ		110.0
16	W	2640	269°	52'55"					10.0	15.6			Δ		
17	"	1320	90°	09'40"					4.0		-7.7		-	1104	
18		0							H1	5.4	-5.4			-	1103
19	E	1320	89°	59'20"					4.0		-3.8		-	1102	
20	"	2640	✓						2.5		-2.5	107.5	⊙	1101	107.5

T1-588B " 2640 89° 56'44"

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### STADIA SURVEY NOTES

AREA \_\_\_\_\_ STATE or PROVINCE \_\_\_\_\_ PAGE No. 4  
 LINE No.(s) 58 PARTY No. 1182 DATE 27 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HERNDON RODMAN \_\_\_\_\_ 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													107.5			
2															1101	
3	W	2145	✓						5.3	+5.3	112.8		Δ		NOPE	112.8
4	"	2145		89° 52' 20"					10.0	+5.3			Δ			
5	"	825		90° 13' 20"					4.0	-7.2			-	1100		
6		0												1099+495	π	
7	E	495	✓						12.2	-12.2			-	1099		
8	"	1815		88° 22' 33"					10.0	41.4	+41.5	154.3	⊙	1098	✓	154.3
9	"	1815		271° 38' 04"					10.0	41.7			⊙			
10	W	1320		90° 57' 22"					10.0	+32.1	+31.9	186.2	Δ		NOPE	186.2
11	"	1320		269° 03' 35"					10.0	31.7			Δ			
12		0						HI	5.4	-5.4				1097	π	
13	E	1320		90° 26' 00"					4.0	-14.0	-13.8	172.4	⊙	1096		172.4
14	"	1320		269° 34' 55"					4.0	-13.7			⊙			
15	W	1320		90° 05' 25"					4.0	+6.1	+6.0	178.4	Δ			178.4
16	"	1320		269° 54' 50"					4.0	+6.0			Δ			
17		0						HI	5.4	-5.4				1095	π	
18	W	1320	✓						6.2	-6.2			-	1094		
19	"	2640		89° 55' 30"					4.0	-0.7	-0.6	177.8	⊙	1093		177.8
20	"	2640		270° 04' 50"					4.0	-0.4			⊙			

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 5  
 LINE No.(s) 58 PARTY No. 1182 DATE 27 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JOHNS 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	Correction	Center Hair			INST.	ROD			
1													177.8			
2															1093	
3	W	1320	90°	20'10"				10.7	+18.5	+18.4	196.2		Δ			196.2
4	"	1320	269°	40'10"				10.7	+18.4				Δ			
5		0						HI 5.4		-5.4					1092	π
6	E	1320	90°	49'10"				4.0		-22.9				-	1091	
7	"	2640	90°	25'50"				4.0	-24.0	-23.7		172.5	⊙	1088		172.5
8	"	2640	269°	35'00"				4.0	-23.3				⊙			
9	W	2640	90°	03'50"				4.0	7.1	+7.0	179.5		Δ			179.5
10	"	2640	269°	56'20"				4.0	7.0				Δ			
11	"	1320	90°	05'20"				4.0		-6.1				-	1089	
12		0						HI 5.4		-5.4				⊙	1088	
13	E	1320	89°	51'20"				4.0		-0.7			⊙	1087	S.S.	
14	"	2640	89°	53'28"				4.0	0.9	+1.1		180.6	⊙	1086		180.6
15	"	2640	270°	01'01"				4.0	1.3				⊙			
16	W	2640	89°	59'10"				4.0	+3.5	+3.3	183.9		Δ			183.9
17	"	2640	270°	01'20"				4.0	3.1				Δ			
18	"	1320	89°	59'45"				4.0		-3.9				-	1085	
19		0						HI 5.4		-5.4					1084	π
20	E	1320	90°	06'20"				4.0		-6.5				-	1083	

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 6  
 LINE No.(s) 58 PARTY No. 1182 DATE 26 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JOHNS 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												183.9				
2																
3	E	2640	✓						4.5	-4.7	-4.6		179.3	⊙	1082	179.3
4	"	2640	89°	57'55"					10.0	R				⊙		
5	W	2640	✓						5.5		+5.5	184.8		⊙		184.8
6	"	2640	89°	54'00"					10.0	5.5				⊙		
7	"	1320	✓						5.0		-5.0			-	1081	
8		0						HI	5.4		-5.4				1080	
9	E	1320	✓						5.0		-5.0			⊙	1079	30.
10	"	2640	✓						4.0		-4.1		180.7	⊙	1078	180.7
11	"	2640	89°	52'15"					10.0	-4.2				⊙		
12	W	2640	✓						11.2		+11.2	191.9		⊙		191.9
13	"	2640	90°	01'33"					10.0	11.3				⊙		
14	"	1320	90°	09'33"					4.0		-7.7			-	1077	
15		0							5.4		-5.4				1076	π
16	E	1320	90°	03'00"					4.0		-5.2			-	1075	
17	"	2640	✓						5.5		-5.6		186.3	⊙	1074	186.3
18	"	2640	89°	54'20"					10.0	-5.8				⊙		
19	W	2640	✓						11.2		+11.3	197.6		⊙		197.6
20	"	2640	89°	56'33"					14.0	11.5				⊙		

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**STADIA SURVEY NOTES**

AREA HELANDER STATE or PROVINCE ALASKA PAGE No. 7  
 LINE No.(s) 58 PARTY No. 1182 DATE 26 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JOHNS 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												197.6				
2																
3	W	1320	90°	07'40"				4.0		-7.0			-	1073		
4		0						5.4		-5.4				1072	π	
5	E	1320	90°	09'35"				4.0		-7.7			-	1071		
6	"	2640	✓					9.8		-9.9			⊙	1070		
7	"	2640	89°	56'00"				13.0	-10.1				⊙			
8		2230	✓					6.4		-6.4		191.2	-	LAKE		191.2
9												161		LAKE ELEV (OFF MAP)		
10												+30.2		MISTLE		
11																
12																
13																THE LAKE
14																REFERRED TO
15																ABOVE IS A LAKE,
16																NOT A TRI STA.
17																USED FOR A CHECK
18																
19																
20																

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12.12  
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11.12  
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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 8  
 LINE No.(s) 58 PARTY No. 1182 DATE 28 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JOHNS 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													187.7			
2															1070	187.7
3	W	2640	90°	01'00"				4.0	4.9	+5.2	192.9			Δ		192.9
4	"	"	269°	58'20"				4.0	5.4					Δ		
5	"	1320	90°	09'15"				4.0		-7.6				-	1069	
6		0						HI	5.4	-5.4				-	1068	π
7	E	1320	90°	03'25"				4.0		-5.3				-	1067	
8	"	2640	✓					8.3		-8.4		184.5		⊙	1066	184.5
9	"	"	90°	04'20"				5.0	-8.5					⊙		
10	W	2640	90°	✓				9.5		+9.5	194.0			Δ		194.0
11	"	"	90°	05'50"				5.0	9.6					Δ		
12	"	1320	90°	06'10"				4.0		-6.4				-	1065	
13		0						HI	5.4	-5.4				-	1064	π
14	E	1320	89°	58'00"				4.0		-1.0				-	1063	
15	"	1815	89°	47'44"				10.0	-3.6	-3.5		190.5		⊙	1062+825	190.5
16	"	"	270°	12'30"				10.0	-3.5					⊙		
17	W	3465	89°	58'00"				5.0	1.2	+1.1	191.6			Δ		191.6
18	"	"	870°	04'10"				5.0	1.1					Δ		
19	"	2640	90°	18'14"				4.0		-15.1				-	1062	
20	"	1320	90°	24'45"				4.0		-13.5				-	1061	

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 9  
 LINE No.(s) 5B PARTY No. 1182 DATE 28 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JOHNS 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												191.6				
2																
3		0						H1	5.4		-5.4				1060	K
4	E	1320	89°	53' 33"					4.0		-1.6			-	1059	
5	"	2640	89°	28' 00"					5.0	19.4	+19.6		211.2	⊙	105B	211.2
6	"	2640	270°	32' 28"					5.0	19.7				⊙		
7	W	2640	89°	30' 40"					10.0	-12.4	-12.3	198.9		Δ		198.9
8	"	"	270°	29' 00"					10.0	-12.1				⊙		
9	"	1320	89°	47' 00"					4.0		+1.0			-	1059	
10		0						H1	5.4		-5.4			-	1058	K
11	E	1320	90°	17' 44"					4.0		-10.8			-	1055	
12	"	2640	90°	01' 55"					10.0	-16.2	-16.1		182.8	⊙	1054	182.8
13	"	"	269°	52' 22"					10.0	-16.0				⊙		
14	W	2640							7.0		+7.1	189.9		Δ		189.9
15	"	"	90°	02' 40"					5.0	7.2				Δ		
16	"	1320	90°	51' 10"					21.1	4.0	-40.8			-	1053	
17		0						H1	5.4		-5.4			-	105A	K
18	E	1320	89°	53' 45"					4.0		-1.6			-	1051	
19	"	2640	89°	55' 40"					14.0	-10.8	-10.6		179.3	⊙	1050	179.3
20	"	"	270°	04' 55"					14.0	-10.4				⊙		

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 10  
 LINE No.(s) 58 PARTY No. 1182 DATE 28 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JOHNS 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												179.3				
2															1050	
3	W	1320	70°	43'09"				14.5	31.1	+31.0		210.3	Δ		167 <sup>2</sup>	210.3
4	"	"	269°	17'00"				14.5	31.0				Δ			
5		0						HI	5.4	-5.4					1049	π
6	E	1320	90°	21'40"				10.0	-18.4	-18.2		192.1	⊙		1048	185 <sup>2</sup> 192.1
7	"	"	269°	39'00"				10.0	-18.1				⊙			
8	W	2640						5.4		+5.4		197.5	Δ			197.5
9	"	"	89°	54'00"				10.0	5.5				Δ			
10	"	1320	89°	59'44"				4.0		-3.9			-		1047	
11		0						HI	5.4	-5.4					1046	π
12	E	1320	89°	39'55"				5.0	2.7	+2.8		200.3	⊙		1045	200.3
13	"	"	270°	20'40"				5.0	2.9				⊙			
14	W	3468	89°	48'00"				5.0	-6.8	-6.4		193.9	Δ			193.9
15	"	"	270°	11'10"				5.0	-6.0				Δ			
16	"	2145	90°	30'00"				4.0		-22.8			-		1044	
17	"	825	90°	45'25"				10.0		-20.9			-		1043	
18		0													1042+495	π
19	E	495	91°	06'10"				4.0		-13.5			-		1042	
20	"	1815	91°	00'00"				10.0		-41.7			-		1041	

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 11  
 LINE No.(s) 58 PARTY No. 1182 DATE 28 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JANUS 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												193.9				122 <sup>+</sup>
2																
3	E	3135	91°	02' 50"				10.0	-67.5	-67.3		126.6	⊙	1040	239 <sup>+</sup>	126.6
4	"	"	268°	57' 30"				10.0	-67.2				⊙			
5	W	1320	91°	01' 40"				10.0	34.1	+34.1	160.7		Δ		205 <sup>+</sup>	160.7
6	"	"	268°	57' 30"				10.0	34.0				Δ			
7		0						HI	5.4						1039	7
8	E	1320	89°	42' 11"				5.0	1.8	+1.9		162.6	⊙	1038	203.4	162.6
9	"	"	270°	18' 00"				5.0	1.9				⊙			
10	W	3465	✓					14.3		+14.4	177.0		Δ		189 <sup>+</sup>	187.0
11	"	"	90°	04' 20"				10.0	14.6				Δ			
12	"	2145	90°	08' 35"				4.0		-9.5			-	1037		
13	"	825	91°	25' 22"				4.0		-10.1			-	1036		
14		0													1035+195 T	
15	E	495	90°	28' 08"				4.0		-8.1			-	1035		
16	"	1815	89°	32' 20"				4.0		+2.5			-	1034		
17	"	3175	89°	24' 30"				10.0	22.2	+22.4		199.4	⊙	1033	166 <sup>+</sup>	199.4
18	"	"	270°	25' 50"				10.0	22.5				⊙			
19	W	2640	89°	05' 30"				10.0	-31.7	-31.7	167.7		Δ		198 <sup>+</sup>	167.7
20	"	"	270°	54' 30"				10.0	-31.7				⊙			

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 12  
 LINE No.(s) 5B PARTY No. \_\_\_\_\_ DATE 28 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN \_\_\_\_\_ 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												167.7			
2															
3	W	1320	89°	32' 25"				4.0		+6.6			-	1032	
4		0						5.4		-5.4				1031	↗
5	E	1320	89°	28' 20"				4.0	10.0	+10.2		177.9	0	1030	144 <sup>2</sup> 177.9
6	"	"	270°	37' 20"				4.0	10.3				0		
7	W	1815	90°	14' 50"				4.0	11.9	+12.1	190.0		Δ		154 <sup>2</sup> 190.0
8	"	"	269°	44' 25"				4.0	12.3				Δ		
9	"	495	90°	43' 17"				4.0		-10.2			-	1029	
10		0													
11	E	825	✓					4.0		-4.0			-	1028	
12	"	2145	89°	51' 50"				5.0	-0.0	+0.2		190.2	0	1027	146 <sup>2</sup> 190.2
13	"	"	270°	08' 50"				5.0	0.4				0		
14	W	2640	✓					5.0		+5.0	195.2		Δ		167 <sup>2</sup> 195.2
15	"	"	89°	53' 25"				10.0	5.1				Δ		
16	"	1320	90°	10' 25"				4.0		-8.0			-	1026	
17								5.4		-5.4				1025	
18	E	1320	89°	55' 30"				4.0		-2.3			-	1024	
19	"	2640	89°	34' 50"				5.0	14.2	+14.4		209.6	0	1023	170 <sup>2</sup> 209.6
20	"	"	270°	25' 33"				5.0	14.5				0		

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 13  
 LINE No.(s) 58 PARTY No. 1182 DATE 28 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JOHNS 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												209.6				
2															1023	
3	W	495	92°	54' 06"				10.0	35.0	+35.0	244.6		Δ		182 <sup>E</sup>	244.6
4	"	"	267°	06' 06"				10.0	35.0				Δ			
5		0													1022+825 π	
6	E	825	✓					2.4		-2.4		242.2	⊙	1022	221 <sup>E</sup>	242.2
7	"	"	89°	49' 00"				5.0	-2.4				⊙			
8	W	3135	89°	19' 50"				14.0	-22.4	-22.2	220.0		Δ		219 <sup>E</sup>	220.0
9	"	"	270°	39' 44"				14.0	-22.0				Δ			
10	"	1815	89°	24' 50"				4.0		+14.5			-	1021		
11	"	495	90°	01' 11"				4.0		-4.2			-	1020		
12		0													1019+825 π	
13	E	825	90°	18' 45"				4.0		-8.5			-	1019		
14	"	2145	90°	15' 55"				4.0	-14.0	-13.9		206.1	⊙	1018	194 <sup>E</sup>	206.1
15	"	"	269°	44' 20"				4.0	-13.9				⊙			
16	W	3135	90°	38' 15"				4.0	39.1	+39.2	245.3		Δ		183 <sup>E</sup>	245.3
17	"	"	269°	21' 37"				4.0	39.2				Δ			
18	"	1815	90°	52' 25"				4.0		-31.7			-	1019		
19	"	495	90°	28' 20"				4.0		-8.1			-	1016		
20															1015+825	

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 14  
 LINE No.(s) 5B PARTY No. 1182 DATE 28 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN JOHNS 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	Correction	Center Hair			INST.	ROD			
1												245.3				
2																
3	E	825	91°	04' 55"				4.0		-19.6				-	1015	
4	"	2145	90°	25' 10"				10.0	-25.8	-25.7		219.6		⊙	1014	222.2 219.6
5	"	"	269°	35' 10"				10.0	-25.6					⊙		
6	W	2640	90°	10' 00"				10.0	17.8	+17.9		237.5		Δ		196 <sup>F</sup> 237.5
7	"	"	269°	49' 55"				10.0	17.9					Δ		
8	"	1320	90°	38' 00"				9.0		-18.6				-	1013	
9		0						5.4		-5.4					1012	π
10	E	1320	89°	14' 11"				10.0	7.6	+7.7		245.2		⊙	1011	214.4 245.2
11	"	"	270°	46' 10"				10.0	7.7					⊙		
12	W	2640	89°	26' 30"				4.0	-21.6	-21.4		223.8		Δ		222.1 223.8
13	"	"	270°	33' 11"				4.0	-21.3					Δ		
14	"	1320	89°	52' 52"				4.0		-1.7				-	1010	
15		0						5.4		-5.4					1009	
16	E	1320	89°	30' 50"				4.0		+7.1				-	1008	
17	"	2640	89°	01' 00"				10.0	35.2	+35.4		259.2		⊙	1007	200.7 259.2
18	"	"	270°	59' 33"				10.0	35.6					⊙		
19		480	✓					4.5		+4.5		263.7		Δ	TRI	STA FLO π
20		"	89°	56' 00"				5.0	4.4					Δ		236.1

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## STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 15  
 LINE No.(s) 5B PARTY No. 1182 DATE 29 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												263.7				
2																DOWN FACE
3		0						HI	4.6		-4.6	259.1		FLO	T	240.6
4												236.0				ELEV
5												+23.1				MISTIE
6																
7																
8												236.0				ELEV FLO
9		0						HI	4.6		+4.6	240.6		Δ FLO	T	
10	NE	480	✓						4.5	-4.5	-4.5		236.1	0	1002	
11	"	"		89° 56' 00"					5.0	-4.4				0		
12	W	2640		89° 14' 30"					10.0	-24.9	-25.3	210.8		Δ		233.9
13	"	"		270° 46' 44"					10.0	-25.7				Δ		
14	"	1320		89° 51' 15"					4.0		-0.7		210.1	-	1006	
15		0						HI	5.4		-5.4	205.4			1005	T
16	E	1320		89° 00' 41"					4.0		+18.7	229.5		-	1004	
17	"	2145		89° 02' 25"					10.0	25.8	+26.0		236.8	0	1003	+495 259.9
18	"	"		270° 58' 05"					10.0	26.1				0		
19	W	1815		89° 31' 40"					10.0	-4.9	-5.0	231.8		Δ		254.9
20	"	"		270° 28' 48"					10.0	-5.1				Δ		

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 16  
 LINE No.(s) 58 PARTY No. 1182 DATE 29 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												231.8				
2																
3	W	1320	89°	33'50"				6.0		-4.0		235.8	-	1003		
4		0							HI	5.4		-5.4		226.4		1002 X
5	E	1320	91°	24'00"				4.0		-36.3		195.5	-	1001		
6	"	2640	70°	44'20"				10.0		-44.2	-44.1			187.7	⊙	1000 210.8
7	"	"	269°	16'00"				10.0		-43.9					⊙	
8	W	2640	89°	48'15"				5.0		-3.9	-3.9	183.8			Δ	206.9
9	"	"	270°	11'50"				5.0		-3.9					Δ	
10	"	1320	89°	51'00"				4.0		-0.6		183.2	-	999		
11		0							HI	5.4		-5.4		178.4		998
12	E	1320	90°	07'30"				4.0		-6.9		176.9	-	997		
13	"	2640	✓					13.1			13.1	170.7		996	⊙	193.8
14	"	"	70°	04'00"				10.0		-13.2					⊙	
15	W	2640	89°	45'38"				5.0		-5.9	-6.2	164.5			Δ	187.6
16	"	"	270°	15'00"				5.0		-6.4					Δ	
17	"	1320	89°	57'22"				4.0		-0.7		163.8	-	995		
18		0							HI	5.4		-5.4		159.1		994 X
19	E	1320	90°	11'25"				4.0		-8.4		156.1	-	993		
20	"	2640	✓					3.8		-3.8		160.7	⊙	992		MARKER PIPE 183.8

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" 89° 58' 25"

5.0 -3.9

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 17  
 LINE No.(s) 5B PARTY No. 1182 DATE 29 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												160.7				
2															992	
3	W	2640	✓					11.5		+11.5	172.2		Δ			195.3
4	"	"	90°	08'20"				5.0	11.5				Δ			
5	"	1320	90°	15'55"				4.0		-10.1		162.1	-	991		
6		0					HI	5.4		-5.4		166.8		990		
7	E	1320	88°	55'25"				5.0	19.8	+19.9		192.1	⊙	989		215.2
8	"	"	271°	05'20"				5.0	20.0				⊙			
9	W	2640	✓					13.5		+13.6	205.7		Δ			228.8
10	"	"	90°	04'35"				10.0	13.7				Δ			
11	"	1320	90°	14'10"				4.0		-9.5		196.2	-	988		
12		0					HI	5.4		-5.4		200.3		987	π	φ
13	E	1320	✓					10.0		-10.0		195.7	⊙	986		210.8
14	"	"	90°	10'05"				6.0	-10.1				⊙			
15	W	1485	89°	11'33"				5.0	-15.9	-16.0	179.7		Δ			202.3
16	"	"	87°	48'50"				5.0	-16.0				Δ			
17	"	165	90°	37'15"				4.0		-3.6		176.1	-	985		
18		0													984-1155	π
19	E	1155	72°	40'25"				10.0	-63.8	-63.7		116.0	⊙	984		139.1
20	"	1155	267°	20'11"				10.0	-63.6				⊙			

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**STADIA SURVEY NOTES**

AREA NPA-4 STATE or PROVINCE ALASKA PAGE No. 18  
 LINE No.(s) 58 PARTY No. 1182 DATE 29 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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													116.0			
2															984	
3	W	2640	90°	17' 52"				10.0	23.9	+23.7	139.7			Δ		162.8
4	"	"	269°	42' 40"				10.0	23.5					Δ		
5	"	1320	90°	48' 18"				14.0		-30.7		109.0		-	983	
6		0						HI 5.4		-5.4		134.3			982	π
7	E	1320	89°	51' 10"				4.0	-0.6	-0.5		139.2		⊙	981	162.3
8	"	"	270°	09' 11"				4.0	-0.5					⊙		
9	W	2145	89°	56' 33"				4.0	1.9	+1.7	140.9			Δ		164.0
10	"	"	270°	04' 05"				4.0	1.5					Δ		
11	"	825	91°	26' 15"				10.0		-30.7		110.2		-	980	
	E	495	92°	48' 50"				4.0		-28.3		112.6		-	979	495 π
		1815	89°	58' 50"				4.0		-3.5		137.4		-	978	
		2310	89°	39' 20"				10.0	3.8	+3.9		144.8		⊙		167.9
		"	270°	21' 00"				10.0	4.0					⊙		
		2145	89°	53' 10"				5.0	0.8	+0.7	145.5			Δ		168.6
		"	270°	07' 10"				5.0	0.6					Δ		
		1320	90°	09' 00"				4.0		-7.5		138.0		-	977	
20		0						HI 5.4		-5.4		140.1			976	π

TI-588B

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 19  
 LINE No.(s) 58 PARTY No. 1182 DATE 29 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												145.5				
2																
3	NE	1320	88°	52'15"				4.0		+22.0		167.5	-	975		
4	"	1815	88°	47'00"				5.0	33.5	+33.7		179.2	0	974+825		202.3 ♀
5	"	"	271°	13'40"				5.0	33.8				0,			
6	W	2145	89°	48'38"				5.0	-2.0	-2.1	177.1		Δ			200.2
7	"	"	270°	11'33"				5.0	-2.1				Δ,			
8	"	1320	90°	13'30"				4.0		-9.2		167.9	-	974		
9		0														
10	E	1320	89°	18'10"				5.4		-5.4		161.7	-	973		π
11	"	1815	88°	59'48"				4.0		+12.0		189.1	-	972		
12	"	"	271°	01'05"				5.0	26.7	+26.9		204.0	0	971+825		201.1 ♀
13	"	"	271°	01'05"				5.0	27.2				0,			
13	W	2145	88°	54'30"				5.0	-35.8	-35.9	168.1		Δ			191.2
14	"	"	271°	05'50"				5.0	-36.0				Δ,			
15	"	1320	89°	55'05"				4.0		-2.1		166.0	-	971		
16		0														
17	E	1820	90°	09'25"				5.4		-3.4		162.7	-	970		
18	"	2640	✓					4.0		-7.7		160.4	-	969		
19	"	"	90°	04'14"				13.3		-13.3		154.8	0	968		177.9
20								10.0		-13.4			0,			

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 20  
 LINE No.(s) 58 PARTY No. 1182 DATE 30 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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	Correc-tion	Center Hair			INST.	ROD		
1												154.8			
2														968	
3	W	2484	✓						4.5	+4.6	159.4		Δ		182.5
4	"	"	89° 52'40"						10.0	4.8			Δ <sub>1</sub>		INT. LINES 129
5	"	1164	90° 10'00"						4.0	-7.4	152.0		-	967	658
6		0						H1	5.4	-5.4	154.0			966+156	
7	S	1320	✓						6.5	-6.5	152.9		-	59	L-129 176.0
8		0						H1	5.4	-5.4	154.0		-	60	AT INT.
9	N	1320	✓						5.2	-5.2	154.2		-	61	L-129
10	E	156	90° 27'44"						4.0	-5.3	154.1		-	966	L-58
11	"	1476	90° 03'20"						4.0	+5.5	164.9		-	965	
12	"	2796	✓						3.3	-3.3	156.1		⊙	964	
13	"	"	89° 51'44"						10.0	-3.4			⊙		INT.; L-129 SP60
14															L-58 CP 966+156
15															MARKER PIPE
16															
17												152.4		SP60	L-129 ELEV.
18												154.0		SP966+156	L-58 ELEV
19												+1.6			MISTLE
20															

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

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 21  
 LINE No.(s) 58 PARTY No. 1182 DATE 30 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												156.1				
2															964	
3	W	2145	91°	10' 45"				10.0	54.2	+54.0	210.1		Δ			
4	"	"	268°	50' 00"				10.0	53.8				Δ			
5	"	825	72°	28' 35"				10.0		-45.6		164.5	-	963		
6		0													962 + 495 X	
7	E	495	90°	29' 35"				4.0		-8.3		201.8	+	962		
8	"	1320	90°	21' 35"				10.0	-18.3	-18.2		191.9	⊙	961 + 495		
9	"	"	269°	38' 45"				10.0	-18.2					⊙		
10	W	3135	89°	18' 33"				5.0	-32.6	-32.8	159.1		Δ			
11	"	"	270°	42' 00"				5.0	-33.1					Δ		
12	"	2640	89°	34' 30"				4.0	15.4	+15.4		174.5	-	961		
13	"	1320	89°	56' 50"				4.0		-5.3		153.8	-	960		
14		0													959 X	
15	E	1320	90°	20' 10"				5.0		-12.8		146.3	-	958		
16	"	2640	90°	08' 38"				10.0	-16.8	-16.9		142.2	⊙	957		
17	"	"	269°	51' 11"				10.0	-16.9					⊙		
18	W	1320	90°	16' 07"				14.0	20.2	+20.1	162.3		Δ			
19	"	"	269°	44' 12"				14.0	20.1					Δ		
20		0													956 X	

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

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 22  
 LINE No.(s) 58 PARTY No. 1182 DATE 30 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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	Correc-tion	Center Hair			INST.	ROD		
1												162.3			
2															
3	E	1320	90°	12'45"				10.0	-17.2	-17.3		145.0	0	955	
4	"	"	269°	41'00"				10.0	-17.3				0		
5	W	2145	90°	20'20"				10.0	22.8	+22.7	167.7		0		
6	"	"	269°	40'00"				10.0	22.6				0		
7	"	825	91°	19'40"				4.0		-23.1		144.6	-	954	
8		0												953+495	
9	E	495	91°	10'44"				4.0		-14.2		153.5	-	953	
10	"	1815	91°	21'50"				4.0		-47.3		120.4	-	952	
11	"	3135	90°	48'50"				10.0	-54.7	-54.4		113.3	0	951	
12	"	"	269°	11'44"				10.0	-54.2				0		
13	W	2640	90°	22'10"				10.0	27.2	+27.1	140.4		0		
14	"	"	269°	38'00"				10.0	27.0				0		
15	"	1320	90°	58'40"				4.0		-26.6		113.8	-	950	
16		0						HI 5.4		-5.4		135.0		949	
17	E	1320	89°	52'00"				4.0		-1.0		139.4	-	948	
18	"	2640	89°	49'35"				5.0	2.9	+3.1		143.5	0	947	
19	"	"	270°	11'00"				5.0	3.3				0		
20															

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 23  
 LINE No.(s) 5B PARTY No. 1182 DATE 30 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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	Correc-tion	Center Hair			INST.	ROD		
1															
2												143.5			
3	W	3135	90°	58'50"				10.0	63.8	+63.8	207.3		Δ	947	
4	"	"	269°	01'10"				10.0	63.8				Δ		
5	"	1815	91°	44'40"				4.0		-59.3		148.0	-	946	
6	"	495	91°	21'50"				10.0		+1.8		209.1	-	945	
7		0												944+825 X	
8	E	825	90°	11'00"				4.0		-6.7		200.6	-	944	
9	"	2145	✓					11.9	-11.9	-11.9		195.4	○	943	
10	"	"	90°	03'05"				10.0	-12.0				○		
11	W	825	✓					10.6		+10.6	206.0		Δ		
12	"	"	90°	23'25"				5.0	10.6				Δ		
13		0												942+495 X	
14	N	790	89°	31'15"				5.0	1.6	+1.7		207.7	○	A A+IK	4
15	"	"	270°	29'00"				5.0	1.7				○		
16															
17												202.0		ELEV	
18												+5.7		MISTIE	
19															
20															

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 24  
 LINE No.(s) 5B PARTY No. 1182 DATE 30 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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			TAKE OFF TA1 STA ATK														
2													202.0				
3	N	790	89°	31'15"					5.0	-1.6	-1.7	200.3		Δ		Δ ATK	
4	"	"	270°	29'00"					5.0	-1.7				Δ		T 942+495	
5	E	495	90°	20'30"					4.0		-7.0			-	942		
6	"	1815	✓						6.0		-6.0			⊙	941		
7	"	2310	✓						9.3		-9.3		191.0	⊙	940*	895	
8	"	"	90°	06'35"					5.0	-9.5				⊙			
9	W	2145	88°	34'15"					5.0	-48.4	-48.5	142.5		Δ			
10	"	"	271°	26'10"					5.0	-48.6				Δ			
11	"	1320	89°	55'10"					4.0		-2.2			-	940		
12		0						H1	5.4		-5.4			-	939		
13	E	1320	✓						5.5		-5.5			-	938		
14	"	2640	✓						5.7		-5.7		136.8	⊙	937		
15	"	"	89°	54'20"					10.0	-5.8				⊙			
16	W	1010	99°	36'22"					10.0	35.4	+35.3	172.1		Δ			
17	"	"	268°	34'00"					10.0	35.3				Δ			
18	N	870	89°	43'10"					5.0		-0.8		171.3	-	138	L-128	
19												174.7				ELEV SP 138 L-128	
20		0										MISTIE - 3.4				936+310 X	

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

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 25  
 LINE No.(s) 58 PARTY No. 1182 DATE 30 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												172.1				
2																
3	E	310	86°	58'00"				5.0	11.4	+11.3		183.4	0	936		
4	"	"	273°	01'40"				5.0	11.3				0			
5	W	2640	89°	38'20"				5.0	-11.5	-11.6	171.8		Δ			
6	"	"	270°	22'00"				5.0	-11.7				Δ			
7	"	1320	89°	38'35"				4.0		+4.2		176.0	-	935		
8		0						5.4		-5.4		166.4		934	π	
9	E	1320	90°	34'30"				14.0		-27.3		144.5	-	933		
10	"	2640	90°	39'00"				4.0	-34.1	-34.2		137.6	0	932		
11	"	"	269°	20'50"				4.0	-34.2				0			
12	W	2640	96°	18'12"				4.0	18.1	+17.8	155.4		Δ			
13	"	"	262°	42'30"				4.0	17.6				Δ			
14	"	1320	90°	43'44"				4.0		-20.8		134.6	-	931		
15		0						5.4		-5.4		150.0		930	π	
16	E	1320	91°	02'00"				4.0		-27.8		127.6	-	929		
17	"	2640	90°	53'20"				4.0	-46.6	-46.3		109.1	0	928		
18	"	"	269°	05'20"				4.0	-46.1				0			
19																
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 26  
 LINE No.(s) 5B PARTY No. 1182 DATE 31 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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	Correc-tion	Center Hair			INST.	ROD		
1												109.1			
2														928	
3	SW	1320	90°	20'52"				4.0	+12.0	+11.8	120.9		Δ		ADP
4	"	"	269°	40'15"				4.0	11.6				Δ		
5		0						41 5.4		-5.4		115.5		927	π
6	E	1320	✓					11.2		-11.2		109.7	⊙	926	
7	"	"	90°	03'00"				10.0	-11.2				⊙		
8	W	2640	89°	15'50"				10.0	-23.8	-24.0	85.7		Δ		
9	"	"	270°	44'44"				10.0	-24.2				Δ		
10	"	1320	89°	23'15"				4.0	+10.1	+10.1		95.8	-	925	
11		0						HI 5.4		-5.4		80.3	-	924	
12	E	1320	89°	59'30"				4.0		-3.8		81.9	-	923	
13	"	2640	89°	44'50"				5.0	6.5	+6.6		92.3	⊙	922	
14	"	"	270°	15'29"				5.0	6.7				⊙		
15	W	2640	90°	10'00"				10.0	24.0	+23.8	116.1		Δ		
16	"	"	269°	42'25"				10.0	23.6				Δ		
17	"	1320	90°	35'20"				4.0		-17.6		98.5	-	921	
18		0						HI 5.4		-5.4		110.7	-	920	
19	E	1320	89°	53'10"				14.0		-11.4		104.7	-	919	
20	"	2640	✓					11.9		-12.0		104.1	⊙	918	

Ti-3888 " " 90° 02'33"

10.0 -12.1

⊙

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



### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 27  
 LINE No.(s) 58 PARTY No. 1182 DATE 31 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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													104.1			
2															918	
3	W	2640	90°	12' 11"				10.0	19.5	+19.4	123.5		Δ			
4	"	"	269°	48' 00"				16.0	19.4				Δ			
5	"	1320	90°	28' 06"				4.0		-14.8		108.7	-	917		
6		0						5.4		-5.4		118.1	-	916	π	
7	E	1320	90°	06' 25"				6.0		-8.5		115.0	-	915		4
8	"	2640	✓					9.7		-9.8		113.7	⊙	914		
9	"	"	90°	06' 15"				5.0	-9.9				⊙			
10	W	2640	✓					6.2		+6.2	119.9		Δ			
11	"	"	90°	01' 33"				5.0	6.3				Δ			
12	"	1320	90°	05' 05"				4.0		-6.0		113.9	-	913		
13		0						5.4		-5.4		114.5	-	912	π	
14	E	1320	90°	02' 45"				4.0		-5.1		114.8	-	911		
15	"	2640	90°	09' 27"				10.0	-17.4	-17.2		102.7	⊙	910		
16	"	"	269°	51' 11"				10.0	-16.9				⊙			
17	W	2640	89°	39' 11"				5.0	-10.8	-11.1	91.6		Δ			
18	"	"	270°	21' 25"				5.0	-11.3				Δ			
19	"	1320	90°	05' 55"				4.0		-6.3		85.3	-	909		
20		0						5.4		-5.4		86.2	-	908	π	

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 28  
 LINE No.(s) 58 PARTY No. 1182 DATE 31 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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	Correc-tion	Center Hair			INST.	ROD		
1															
2												91.6			
3	E	1320	90°	11'48"				4.0		-8.5		83.1	-	907	
4	"	2640	89°	47'47"				5.0	4.2	+4.5		96.1	⊙	906	
5	"	"	270°	12'50"				5.0	4.7				⊙		
6	W	1303	90°	20'15"				10.0	17.7	+17.5		113.6			
7	"	"	269°	40'35"				10.0	17.4				Δ		
8		0													
9	N	790	89°	15'35"				5.0		+5.2		118.8	-	905+17	TK INT
10	S	530	92°	28'55"				4.0		-26.9		86.7	-	149	L-127
11	E	17	✓					5.0		-5.0		108.6	⊙	150	INT.
12	"	1337	89°	53'00"				5.0	-2.3	-2.2		111.4	⊙	905	L-58 SP905+17
13	"	"	270°	07'30"				5.0	-2.1				⊙	904	L-127 SP149+790
14															MARKER PIPE
15															
16												121.3		SP149 L-127	VALVE
17												+2.5			MISTIE
18															
19												88.9		SP150 L-127	VALVE
20												+2.2			MISTIE

TI-508B

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 29  
 LINE No.(s) 58 PARTY No. 0 1182 DATE 31 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												111.4			904	
3	W	2145	89°	00' 00"				10.0	-27.3	-27.2	84.2		Δ			
4	"	"	276°	59' 50"				10.0	-27.2				Δ			
5	"	825	88°	57' 50"				4.0		+10.9		95.1	-		903	
6		0													902+495	π
7	E	495	92°	08' 40"				4.0		-22.5		61.7	-		902	
8	"	1815	90°	58' 55"				4.0	-35.2	-35.3		48.9	0		901	
9	"	"	269°	00' 50"				4.0	-35.3				0			
10	W	1320	90°	08' 53"				4.6	5.5	+5.4	54.3		Δ			
11	"	"	269°	08' 40"				4.0	5.4				Δ			
12		0														
13	E	1320						4.1		-5.4		48.9	0		900	π
14	"	"	89°	52' 30"				2.2		-2.2		52.1	0		899	
15	W	2145	90°	16' 25"				10.0	20.8	+20.1	72.2		Δ			
16	"	"	269°	44' 20"				10.0	19.9					Δ		
17	"	825	90°	38' 40"				4.0		-13.3		58.9	-		898	
18		0													897+495	
19	E	495	90°	36' 30"				4.0		-9.3		62.9	-		897	
20	"	1815	90°	43' 10"				14.0	-36.9	-36.9		35.3	0		896	
21	"	"	267°	16' 40"				14.0	-36.9				0			

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

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 30  
 LINE No.(s) 58 PARTY No. 1182 DATE 31 Day 3 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												35.3				
3	W	1320	89°	30'30"				5.0	-6.3	-6.4	28.9		Δ		896	
4	"	"	270°	30'10"				5.0	-6.5				Δ			
5		0						H1	5.4	-5.4		23.5		0	895	π
6	E	1320	✓					13.0		-13.0		15.9		0	894	
7	"	"	90°	07'45"				10.0	-13.0					0		
8	W	2640	✓					12.0		+12.1	28.0			Δ		
9	"	"	90°	02'38"				10.0	12.2					Δ		
10	"	1320	90°	49'55"				4.0		-23.2		4.8		-	893	
11		0						H1	5.4	-5.4		22.6			892	π
12	E	1320	89°	07'33"				4.0		+16.1		44.1		-	891	
13	"	2640	88°	58'55"				5.0	45.6	+45.8		73.8		0	890	
14	"	"	270°	06'30"				5.0	45.9					0		
15	W	1320	90°	25'15"				10.0	19.7	+19.6	93.4			Δ		
16	"	"	269°	35'11"				10.0	19.6					Δ		
17		0						5.4		-5.4		88.0			889	π
18	E	1320	✓					2.7		-2.7		90.7		0	888	
19	"	"	89°	30'00"				5.0	-2.7					0		
20																

TI-558B

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## STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 31  
 LINE No.(s) 58 PARTY No. 1182 DATE 1 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												90.7				
2															888	600 f
3	W	1320	89°	48'50"				10.0	5.7	+5.7	96.4		Δ			
4	"	"	✓					5.7					Δ			
5		0						5.4		-5.4		91.0			887	π
6	E	1320	✓					4.7		-4.7		91.7	⊙		886	
7	"	"	89°	46'25"				10.0	-4.8				⊙			
8	W	1485	89°	34'35"				5.0	-5.9	-6.1	85.6		Δ			
9	"	"	270°	26'22"				5.0	-6.3				Δ			
10	"	165	89°	41'40"				4.0		-3.1		82.5	-		885	
11		0													884+1155 π	
12	E	330	91°	07'15"				10.0	-16.5	-16.5		69.1	⊙		884+825	
13	"	"	268°	53'00"				10.0	-16.4				⊙			
14	W	2145	88°	41'00"				10.0	-39.2	-39.4	29.7		⊙			
15	"	"	271°	19'40"				10.0	-39.6				Δ			
16	"	1320	90°	51'00"				4.0		-23.6		6.1	-		884	
17		0						5.4		-5.4		24.3			883	π
18	E	1320	89°	12'15"				4.0		+14.3		44.0	-		882	
19	"	2640	89°	02'05"				14.0	30.3	+30.5		60.2	⊙		881	600 f
20	"	"	270°	52'30"				14.0	30.8				⊙			

TI-588B

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 32  
 LINE No.(s) 58 PARTY No. 1182 DATE 1 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												60.2				
3	W	2640	90°	23'38"				4.7	23.0	+22.9	83.1		A		881	
4	"	"	269°	36'40"				4.7	22.8				A			
5	"	1320	92°	22'00"				3.8		-58.3		24.8	-	880		
6		0						H1	5.4	-5.4		77.7		879	K	
7	E	825	88°	21'50"				14.2	9.3	+9.4		92.5	0	878+	495	
8	"	"	271°	39'05"				14.2	9.6				0			
9	W	495	✓					12.3		+12.3	104.8		A			
10	"	"	90°	15'35"				10.0	12.2				A			
11		0						H1	5.4	-5.4		99.4		878	K	
12	E	1320	89°	39'45"				10.0	-2.3	-2.1		102.7	0	877		GOOD ↑
13	"	"	270°	21'05"				10.0	-1.9				0			
14	W	1320	✓					5.4		+5.4	108.1		A			
15	"	"	89°	48'00"				10.0	5.4				A			
16		0						H1	5.4	-5.4		102.7		876	K	
17	E	1320	✓					10.8		-10.9		97.2	0	875		GOOD
18	"	"	89°	52'00"				10.0	-11.0				0			
19	W	1320	89°	32'00"				10.0	-0.7	-0.9	96.3		A			
20	"	"	270°	29'00"				10.0	-1.1				A			

TI-888B

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 33  
 LINE No.(s) 58 PARTY No. 1182 DATE 1 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN MYERS WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ΔB.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												96.3				
2																
3		0						HI	5.4		-5.4		90.9		874	π
4	E	1320	90°	26'44"					10.0	-20.3	-20.3		76.0	⊙	873	
5	"	"	269°	33'37"					10.0	-20.2				⊙		
6	W	1320	89°	46'50"					10.0	5.0	+4.7	80.7		Δ		
7	"	"	270°	14'20"					10.0	4.5				Δ		
8		0						HI	5.4		-5.4		75.3		872	π
9	E	1320	90°	22'22"					10.0	-18.6	-18.6		62.1	⊙	871	6000
10	"	"	269°	37'50"					10.0	-18.5				⊙		
11	W	1320	89°	25'00"					10.0	-3.4	-3.6	58.5		Δ		
12	"	"	270°	36'00"					10.0	-3.8				Δ		
13		0						HI	5.4		-5.4		53.1		870	π
14	E	1320	90°	35'10"					10.0	-23.5	-23.4		35.1	⊙	869	
15	"	"	269°	25'45"					10.0	-23.2				⊙		
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 34  
 LINE No.(s) 58 PARTY No. 1182 DATE 2 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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. Neg.	Center Hair			INST.	ROD			
1												35.1				
2															869	
3	W	2640	89°	40'40"				10.0	-4.7	-5.0	30.1		Δ			
4	"	"	270°	20'10"				10.0	-5.3				Δ			
5	"	1320	✓					7.5		-7.5		22.6	-	868		
6		0						HI 5.4		-5.4		24.7	-	867		X
7	E	1320	90°	38'30"				4.0		-4.8		15.3	-	866		
8	"	2640	90°	23'28"				14.0	-32.2	-32.1		-2.0	○	865		
9	"	"	218°	36'40"				14.0	-32.1				○			
10	W	2640	90°	13'27"				10.0	20.5	+20.2	18.2		Δ			
11	"	"	269°	47'20"				10.0	19.9				Δ			
12	"	1320	✓					10.7		-10.7		7.5	-	864		
13		0						HI 5.4		-5.4		12.8	-	863		X
14	E	957	88°	57'00"				5.0		+12.0		30.2	-	INT		L-58 SP 862+465
15	NE	2460	88°	24'24"				5.0		+63.2		81.4	-	189		L-124 SP 190+820
16	NE	1330	89°	19'35"				8.0		+10.6		28.8	-	190		MARKER PIPE
17																MISTLE L-124 APPROX. - 3.0
18																
19	E	1320	89°	07'22"				5.0	15.1	+15.2		33.4	○	262		
20	"	"	270°	52'55"				5.0	15.3				○			

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 35  
 LINE No.(s) 5B PARTY No. 1182 DATE 2 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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													33.4			
2															862	
3	W	2145	90°	34'35"					10.0	31.7	+31.6	65.0		A		
4	"	2145	267°	25'30"					10.0	31.6				A		
5	"	825	90°	59'15"					4.0		-18.2		66.8	-	861	
6		0													860+495 T	9
7	E	495	89°	53'33"					4.0		-3.1		61.9	-	860	
8	"	1815	89°	40'55"					5.0	5.0	+5.1		70.1	0	859	
9	"	"	270°	19'22"					5.0	5.2				0		
10	W	2640	70°	29'30"					14.0	36.8	+36.3	106.4		A		
11	"	"	269°	31'50"					14.0	35.8				A		
12	"	1320	90°	26'10"					4.0		-14.1		92.3	-	858	
13		0														
14	E	1320	90°	15'55"					5.4		-5.4		101.0	-	857 T	
15	"	2640	✓						4.0		-10.1		96.3	-	856	
16	"	"	90°	07'00"					10.3		-10.4		96.0	0	855	
17	W	2640	✓						5.0	-10.5				0		
18	"	"	89°	57'25"					8.2		+8.2	104.2		A		
19	"	1320	89°	48'12"					10.0		-5.5		98.7	-	854	
20		0							5.4		-5.4		98.8	-	853 T	

TI-508B

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 36  
 LINE No. (s) 5B PARTY No. 1182 DATE 2 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												104.2				
2																
3	E	1320	90°	12'35"				4.0		-8.9		95.3	-	852		
4	"	2640	89°	42'23"				5.0	4.5	+4.8		109.0	0	851		
5	"	"	270°	13'20"				5.0	5.1				0			
6	W	2640	✓					4.9		+5.0		114.0	Δ			
7	"	"	89°	53'23"				10.0	5.1				0			
8	"	1320	✓					9.8		-9.8		104.2	-	850		
9		0								-5.4		108.6	-	849	π	
10	E	1320	90°	07'30"				4.0		-6.9		107.1	-	848		
11	"	2640	✓					5.8	-6.0	-5.9		108.1	0	847		
12	"	"	89°	54'35"				10.0	↓				0			
13	W	2640	90°	10'00"				10.0	17.8	+17.5		125.6	Δ			
14	"	"	269°	50'55"				10.0	17.1				0			
15	"	1320	90°	06'40"				4.0		-6.6		119.0	-	846		
16		0								-5.4		120.2	-	845	π	
17	E	1320	90°	00'30"				4.0		-4.2		121.4	-	844		
18	"	2640	90°	02'07"				14.0	-15.8	-15.8		109.8	0	843		GOOD
19	"	"	269°	57'50"				14.0	-15.8				0			
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 37  
 LINE No.(s) 58 PARTY No. 1182 DATE 2 Day 4 Mo. 76 Yr. BOOK No.  
 SURVEYOR HELANDER RODMAN 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												109.8				
2														843		
3	W	2640	✓						6.7	+6.7	116.5		Δ			
4	"	"		89° 55' 25"					10.0	6.6			Δ			
5	"	1320		90° 01' 40"					4.0	-4.7		111.8	-	842	♀	
6		0							5.4	-5.4		111.1	-	841	π	
7	E	1320		90° 02' 00"					4.0	-4.8		111.7	-	840		
8	"	2640		89° 47' 40"					5.0	-4.3		111.8	0	838		
9	"	"		270° 13' 22"					5.0	-5.1			0			
10	W	2640		89° 48' 40"					5.0	-3.6	-3.4	108.4		Δ		
11	"	"		270° 11' 00"					5.0	-3.3				Δ		
12	"	1320		90° 01' 45"					4.0		-4.7		103.7	-	838	
13		0							5.4		-5.4		103.0	-	837	π
14	E	1320		90° 09' 20"					4.0		-7.6		100.8	-	836	
15	"	2640	✓						3.9		-3.9		104.5	0	835	
16	"	"		89° 58' 25"					5.0	-3.9			0			
17	W	2640	✓						7.3		+7.5	112.0		Δ		
18	"	"		89° 56' 45"					10.0	7.7				Δ		
19	"	1320		70° 00' 11"					4.0		-4.1		107.9	-	834	
20		0							5.4		-5.4		106.6	-	833	π

TI-560B

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 38  
 LINE No.(s) 58 PARTY No. 1182 DATE 2 Day 4 Mo. 76 Yr. BOOK No.  
 SURVEYOR HELANDER RODMAN 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												112.0				
2																
3	E	1320	90°	00' 11"				4.0		-4.1		107.9	-	832		
4	"	2640	✓					7.0		-7.1		104.9	⊙	831		6000
5	"	"	89°	56' 06"				10.0		-7.2			⊙			
6	W	2640	✓					6.3		+6.4		111.3	Δ			
7	"	"	89°	53' 25"				10.0		6.6			Δ			
8	"	1320	90°	09' 00"				4.0		-7.5		103.8	-	830		
9		0							HI	5.4		105.9	-	829		π
10	E	1320	89°	41' 10"				4.0		+3.2		114.5	-	828		
11	"	2640	89°	44' 30"				14.5		-2.7		108.7	⊙	827		
12	"	"	270°	15' 50"				14.5		-2.5			⊙			
13	W	2640	90°	01' 00"				10.0		17.1	+16.7	125.4	Δ			
14	"	"	209°	51' 55"				10.0		16.4			Δ			
15	"	1320	90°	41' 25"				4.0		-19.9		105.5	-	826		
16		0							HI	5.4		120.0	-	825		π
17	E	1320	90°	03' 55"				4.0		-5.5		119.9	-	824		
18	"	2640	✓					8.5		-8.6		116.8	⊙	823		
19	"	"	90°	04' 35"				5.0		-8.7			⊙			
20																

TI-568B

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 39  
 LINE No.(s) 58 PARTY No. 1182 DATE 2 Day 7 Mo. 76 Yr. BOOK No.  
 SURVEYOR HELANDER RODMAN 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													116.8			
2															823	
3	W	2640	89°	48'40"					5.0	-3.6	-3.7	113.1		Δ		
4	"	"	270°	11'25"					5.0	-3.7				Δ		
5	"	1320	90°	06'22"					4.0		-6.5		106.6	-	822	
6		0						HI	5.4		-5.4		107.7		821	π
7	E	1320	89°	42'16"					5.0	1.8	+1.9		115.0	0	820	
8	"	"	270°	18'00"					5.0	1.9				0 <sub>1</sub>		
9	W	1320	89°	31'33"					5.0	-5.9	-6.0	109.0		Δ		
10	"	"	270°	28'40"					5.0	-6.0				Δ		
11		0						HI	5.4		-5.4		103.6		819	
12	E	1320	90°	05'00"					4.0	-6.0	-6.0		103.0	-	818	
13	"	2640	89°	45'53"					5.0	5.7	+5.6		114.6	0	817	
14	"	"	270°	14'00"					5.0	5.6				0 <sub>1</sub>		
15	W	1320	89°	17'10"					10.0	-6.4	-6.3	108.3		Δ		
16	"	"	270°	42'35"					10.0	-6.3				Δ <sub>1</sub>		
17		0						HI	5.4		-5.4		102.9		816	π
18	E	1320	✓						5.5		-5.5		102.8	0	815	
19	"	"	89°	48'00"					10.0	-5.4				0 <sub>1</sub>		
20																

TI-558B

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 40  
 LINE No.(s) 58 PARTY No. 1132 DATE 2 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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													102.8				
2															815		
3	W	2305	✓									13.3	+13.3	116.1	Δ		
4	"	"	90°	04'48"								10.0	13.3		Δ		
5	"	985	90°	16'10"								4.0	-8.7	107.4	-	814	
6		0														8130495 INT T 9	
7	S	163	✓									5.1	-5.1	111.0	-	189 L-122	
8	N	1158	91°	18'20"								14.0	-40.4	75.7	-	188	
9																L-122 SP/88+1158	
10																L-58 SP/813+335	
11																MARKER PIPE	
12																	
13	E	335	90°	21'00"								4.0	-6.1	110.0	-	813	
14	"	1455	90°	22'22"								10.0	-20.8	-20.8	95.3	0	812
15	"	"	269°	37'35"								10.0	-20.8		0		
16	W	2646	89°	54'00"								5.0	0.5	+0.6	95.9	Δ	
17	"	"	270°	05'55"								5.0	0.6			Δ	
18	"	1320	90°	47'50"								4.0	-22.4	73.5	-	811	
19		0														810	
20	E	1320	89°	21'20"								5.0			0	812	

TI-5588

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NEXT PAGE

**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 41  
 LINE No.(s) 58 PARTY No. 1182 DATE 4 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												95.9			
2															
3		0													
4	E	1320	89° 37' 20"					HI	5.4		-5.4		90.5	810	π
5	"	"	270° 22' 45"						5.0	3.7	+3.7		99.6	809	⊙
6	W	2640	✓						5.0	3.7				809	⊙
7	"	"	90° 06' 20"						9.8		+9.9	109.5			Δ
8	"	1320	90° 07' 00"						5.0	10.0					Δ
9		0						HI	5.4		-5.4		104.3	808	-
10	E	1320	89° 48' 20"						5.0		-0.5		109.1	807	π
11	"	"	270° 12' 12"						5.0	-0.6	-0.5		109.0	806	⊙
12	W	1320	89° 41' 48"						5.0	-0.4					⊙
13	"	"	270° 18' 35"						5.0	-2.0	-2.0	107.0			Δ
14		0						HI	5.4		-2.1				Δ
15	E	1320	89° 58' 25"						5.4		-5.4		101.6	805	π
16	"	2640	✓						5.0		+0.6		107.6	804	-
17	"	"	89° 52' 44"						4.5		-4.5		102.5	803	⊙
18	W	2135	90° 04' 25"						10.0	-4.6					⊙
19	"	"	249° 55' 50"						14.0	18.2	+18.1	120.6			Δ
20	"	1815	90° 21' 38"						14.0	18.0					Δ
									4.0		-15.5		105.1	802	-

TI-588B

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

**STADIA SURVEY NOTES**

AREA NPR - 4 STATE or PROVINCE ALASKA PAGE No. 42  
 LINE No.(s) 58 PARTY No. 1122 DATE 4 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												120.6				
2																
3	W	495	91°	18'40"				4.0		-15.3		105.3	-	801		
4		0												800+825	π	↑
5	E	825	91°	05'00"				4.0		-19.6		101.0	-	800		
6	"	2145	90°	19'10"				4.0		-16.1		104.5	-	799		
7	"	3465	✓					8.3		-8.3		112.3	0	798		
8	"	"	90°	08'10"				5.0	-8.4				0			
9	W	2145	89°	43'45"				5.0	-5.0	-5.0	107.3		Δ			
10	"	"	87°	16'18"				5.0	-5.1				Δ			
11	"	825	✓					5.2		-5.2		102.1	-	797		
12		0												796+495	π	
13	E	495	90°	33'33"				4.0		-8.8		98.5	-	796		
14	"	1815	89°	50'05"				5.0	0.2	+0.2		107.5	0	795		↑
15	"	"	87°	05'50"				5.0	0.1				0			
16	W	2640	89°	43'20"				5.0	-7.7	-7.7	99.8		Δ			
17	"	"	87°	16'45"				5.0	-7.7				Δ			
18	"	1320	89°	37'35"				4.0		+4.6		1104.4	-	794		
19		0						H1	5.4			94.4		793	π	
20	E	1320	✓					5.0		-5.0		94.8	-	792		

TI-528B

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 43  
 LINE No.(s) 58 PARTY No. 1182 DATE 4 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												99.8				
2																
3	E	2640	89°	55'33"				10.0	-6.7	-6.9		92.9	0	791		
4	"	"	270°	04'08"				10.0	-7.1				0			
5	W	2640	89°	38'48"				5.0	-11.1	-11.1	81.8		Δ			
6	"	"	270°	21'20"				5.0	-11.2				Δ			
7	"	1320	89°	45'05"				4.0		+1.7		83.5	-	790		
8		0						5.4		-5.4		76.4		789		
9	E	1320	90°	05'20"				4.0		-6.1		75.7	-	788		
10	"	2640	✓					7.5		-7.5		74.3	0	787		
11	"	"	90°	05'13"				5.0	-7.6				0			
12	W	2485	✓					4.0		+9.1	83.4		Δ			
13	"	"	90°	05'53"				5.0	9.4				Δ			
14	"	1165	90°	07'27"				4.0		-6.6		76.8	-	786		
15		0												785+185	T INT.	↑
16		660	✓					8.0		-8.0		75.4	-	87	L-121	
17		675	✓					4.9		-4.9		78.5	-	58		
18											TIE LINE 121 APPROX.	2.0 FEET				
19																
20	E	155	✓					5.2		-5.2		78.2	-	785		

TI-588B

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 44  
 LINE No.(s) 58 PARTY No. 1182 DATE 4 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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	Correc-tion	Center Hair			INST.	ROD		
1												83.4			
2															
3	E	1475	90°	23'33"				14.0		-24.1		59.3	-	784	
4	"	2795	90°	16'27"				10.0	-23.5	-23.5		59.9	⊙	783	
5	"	"	269°	43'44"				10.0	-23.4				⊙		
6	W	2640	✓					10.2		+10.3	70.2		Δ		
7	"	"	89°	53'22"				14.0	10.6				Δ		
8	"	1320	✓					2.1		-2.1		68.1	-	782	
9		0						5.4		-5.4		64.8	-	781	
10	E	1320	90°	06'17"				4.0		-6.4		63.8	-	780	
11	"	2640	✓					4.1		-4.2		66.0	⊙	779	
12	"	"	89°	52'20"				10.0	-4.3				⊙		
13	W	2475	90°	00'22"				10.0	24.8	+25.0	91.0		Δ		
14	"	"	269°	38'40"				10.0	25.1				Δ		
15	"	1155	90°	27'00"				10.0		-19.1		71.9	-	778	
16		0												777+165 π	
17	E	165	91°	17'15"				4.0		-7.7		83.3	-	777	
18	"	1495	90°	12'10"				4.0		-9.3		81.7	-	776	
19	"	2805	90°	07'10"				10.0	-16.0	-16.0		75.0	⊙	775	
20	"	"	269°	53'00"				10.0	-15.9				⊙		

TI-588B

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 45  
 LINE No.(s) 58 PARTY No. 1182 DATE 4 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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	Correc-tion			Center Hair	INST.		
1											75.0			
2													775	
3	W	2640	90°	27'05"				10.0	30.9	+30.7	105.7		Δ	
4	"	"	269°	33'30"				10.0	30.5				Δ	
5	-	1320	90°	43'20"				4.0		-20.7	85.0		-	774
6		0						HI 5.4		-5.4	100.3		-	773
7	E	1320	89°	43'28"				4.0		+2.3	108.0		-	772
8	"	2640	89°	43'22"				5.0	7.6	+7.9	113.6		0	771
9	"	"	27°	17'20"				5.0	8.2				0	
10	W	2640	✓					11.3		+11.3	124.9		Δ	
11	"	"	90°	08'10"				5.0	11.4				Δ	
12	"	1320	90°	06'50"				4.0		-6.7	118.2		-	770
13		0						HI 5.4		-5.4	119.5		-	769
14	E	1320	90°	07'15"				4.0		-6.8	118.1		-	768
15	"	2640	✓					8.5		-8.5	116.4		0	767
16	"	"	90°	04'25"				5.0	-8.5				0	
17														
18														
19														
20														

TI-588B

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### STADIA SURVEY NOTES

AREA APR-4 STATE or PROVINCE ALASKA PAGE No. 46  
 LINE No.(s) 58 PARTY No. 1182 DATE 5 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												116.4			
2														767	
3	W	2640	89°	50' 15"				5.0	-2.3	-2.3	114.1		Δ		
4	"	"	270°	09' 40"				5.0	-2.3				Δ		
5	"	1320	90°	02' 18"				4.0		-4.9		109.2	-	766	
6		0						5.4		-5.4		108.7		765	
7	E	1320	✓					4.8		-4.8		109.3	-	764	
8	"	2640	89°	53' 05"				10.0	-4.8	-5.0		109.1	⊙	763	
9	"	"	270°	06' 30"				10.0	-5.2				⊙		
10	W	2640	✓					7.7		+7.7	116.8		Δ		
11	"	"	90°	03' 30"				5.0	7.8				Δ		
12	"	1320	90°	09' 30"				4.0		-7.7		109.1	-	762	
13		0						5.4		-5.4		111.4		761	π
14	E	1320	89°	49' 20"				10.0	-5.9	-5.9		110.9	⊙	760	
15	"	"	✓					5.9					⊙		
16	W	1320	✓					6.3		+6.3	117.2		Δ		
17	"	"	90°	03' 40"				5.0	6.4				Δ		
18		0													
19	S	1286	✓					5.7		-5.7		111.5	-	759.69	π INT. L-58 4
20	N	1354	✓					4.6		-4.6		112.6	-	169	-168+34 L-120

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

MISTIE - 3.5 FOR SP 169 L-120

MARKER PIPE

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 47  
 LINE No.(s) 5B PARTY No. 1182 DATE 5 Day 4 Mo. 76 Yr. BOOK No.  
 SURVEYOR HELANDER RODMAN 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. I.F.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												117.2				
2																
3	E	69	✓					6.0		-6.0		111.2	-	759		
4	"	1389	90°	05'00"				4.0		-6.1		111.1	-	758		
5	"	2709	✓					8.8		-8.8		108.4	⊙	757		
6	"	"	90°	04'40"				5.0	-8.8				⊙			
7	W	1320	89°	57'25"				10.0	+9.0	+9.1	117.5		Δ			
8	"	"	✓					9.1					Δ			
9		0						5.4		-5.4		112.1	-	756	π	
10	E	1320	90°	43'30"				5.0		-21.7		95.8	-	755		
11	"	2640	✓					3.8		-3.8		113.7	⊙	754		
12	"	"	89°	58'20"				5.0	-3.9				⊙			
13	W	2640	89°	53'44"				5.0	0.3	+0.3	114.0		Δ			
14	"	"	270°	04'25"				5.0	0.2				Δ			
15	"	1320	✓					4.5		-4.5		109.5	-	753		
16		0						5.4		-5.4		108.6	-	752	π	
17	E	1320	90°	03'18"				4.0		-5.3		108.7	-	751		
18	"	2640	✓					6.5		-6.5		107.5	⊙	750		
19	"	"	90°	01'53"				5.0	-6.6				⊙			
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 48  
 LINE No.(s) 58 PARTY No. 1182 DATE 5 Day 4 Mo. 76 Yr. BOOK No.  
 SURVEYOR HELANDER RODMAN 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	Correc-tion	Center Hair			INST.	ROD		
1												107.5			
2														750	
3	W	2640	✓								+10.8	118.3		Δ	
4	"	"	90°	01'00"					10.9					Δ	
5	"	1320	✓						4.5		-4.5	113.8		-	749
6		0					HI		5.4		-5.4	112.9		-	748 π
7	E	1320	90°	03'30"					4.0		-5.5	112.8		-	747
8	"	2640	✓						9.5		-9.5	108.8		⊙	746
9	"	"	90°	05'45"					5.0	-9.6				⊙	
10	W	2640	✓						14.3		+14.3	123.1		Δ	
11	"	"	90°	05'33"					10.0	14.4				Δ	
12	"	1320	90°	18'20"					4.0		-11.1	112.0		-	745
13		0					HI		5.4		-5.4	117.7		-	744 π
14	E	1320	90°	08'00"					4.0		-7.1	115.0		-	743
15	"	2640	90°	06'45"					14.0	-19.3	-19.6	103.5		⊙	742
16	"	"	269°	52'30"					14.0	-19.9				⊙	
17	W	2145	90°	26'22"					10.0	26.5	+26.6	130.1		Δ	
18	"	2145	269°	33'25"					10.0	26.7				Δ	
19	"	825	90°	26'22"					4.0		-10.3	119.8		-	741
20		0													740+495 π 9

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 49  
 LINE No.(s) 5B PARTY No. 1182 DATE 5 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												130.1				
2																
3	E	495	90°	15'00"				4.0		-6.2		123.9	-	740		
4	"	1815	90°	19'30"				4.0		-14.4		115.7	-	789		
5	"	3135	✓					14.7		-14.8		115.3	⊙	738		♀
6	"	"	90°	05'15"				10.0	-15.0				⊙			INT L-58 SP 737+27
7	W	1293	89°	19'15"				10.0	-5.3	-5.3	110.0		Δ			L-64 SP 175+42
8	"	"	270°	40'50"				10.0	-5.3				Δ			
9		0													737+27 X INT	♀
10	N	42	✓					5.4		-5.4		104.6	-	175	L-64	84.9
11	S	1278	✓					5.5		-5.5		104.5	-	176		87.6
12																
13																
14																
15																
16	E	27	✓					5.4		-5.4		104.6	-	737		
17	"	1347	90°	36'37"				10.0		-25.2		84.8	-	736		
18	"	2667	90°	19'28"				10.0	-25.3	-25.5		84.5	⊙	735		
19	"	"	265°	40'00"				10.0	-25.7				⊙			
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALABAMA PAGE No. 50  
 LINE No.(s) 5B PARTY No. 1182 DATE 5 Day 4 Mo. 76 Yr. BOOK No.  
 SURVEYOR HELANDER RODMAN MYERS WEATHER: P.T.S. No.

STATION	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Δ B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													84.5			
2															735	
3	W	2640		89° 54' 00"					10.0	5.5	+5.5	90.0		Δ		
4	"	"		270° 06' 00"					10.0	5.5				Δ		
5	"	1320	✓						1.3		-1.3		88.7	-	734	
6		0						H1	5.4		-5.4		84.6		733	π
7	E	1320	✓						2.1		-2.1		87.9	-	732	
8	"	2640		89° 45' 37"					5.0	5.9	+5.8		95.8	⊙	731	
9	"	"		270° 14' 00"					5.0	5.6				⊙		
10	W	2475		90° 16' 10"					14.0	25.8	+25.9	121.7		Δ		
11	"	"		269° 43' 30"					14.0	26.0				Δ		
12	"	1155		90° 16' 25"					4.0		-9.5		112.2	-	730	
13		0													729+	165 π
14	E	165		91° 29' 33"					4.0		-8.3		113.4	-	729	
15	"	1485		90° 14' 05"					4.0		-10.1		111.6	-	728	
16	"	2805	✓						4.9		-5.0		116.7	⊙	727	
17	"	"		89° 53' 45"					10.0	-5.1				⊙		
18	W	825	✓						12.7		+12.7	129.4		Δ		
19	"	"		90° 11' 08"					10.0	+12.7				Δ		
20		0													726+	495

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 51  
 LINE No.(s) 58 PARTY No. 1182 DATE 5 Day 4 Mo. 76 Yr. BOOK No.  
 SURVEYOR HELANDER RODMAN 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	Correc-tion			Center Hair	INST.		
1											129.4			
2														
3	E	495	90°	18'35"				4.0	-6.7		122.7	-	726	
4	"	1815	✓					9.7	-9.7		119.7	○	725	
5	"	"	90°	08'50"				5.0	-9.7			○		
6	W	2145	✓					14.5	+14.5	134.2		△		
7	"	"	90°	07'10"				10.0	14.6			○		
8	"	825	90°	41'10"				4.0	-13.9		120.3	-	724	
9		0											723+495 X	4
10	E	495	90°	45'11"				4.0	-10.5		123.7	-	723	
11	"	1815	✓					13.3	-13.3		120.9	○	722	
12	"	"	90°	06'10"				10.0	-13.3			○		
13	W	2640	✓					5.9	+6.0	126.9		△		
14	"	"	90°	01'20"				5.0	6.2			△		
15	"	1320	90°	03'10"				4.0	-6.0		126.9	-	721	
16		0					HI	5.4	-5.4		121.5		720 X	
17	E	1320	90°	09'10"				4.0	-7.6		119.3	-	719	
18	"	2640	✓					8.8	-8.9		118.0	○	718	
19	"	"	90°	05'00"				5.0	-9.0			○		
20														

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 52  
 LINE No.(s) 5B PARTY No. 1182 DATE 5 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR MELANDER RODMAN 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												118.0				
2															718	
3	W	2640	0 ✓					6.1		+6.1	124.1		Δ			
4	"	"	89°	54'55"				10.0	6.2				Δ <sub>1</sub>			
5	"	1320	90°	05'20"				4.0		-6.1	118.0		-	717		
6		0					HI	5.4		-5.4	118.7			716	π	
7	E	1320	✓					3.7		-3.7	120.4		-	715		
8	"	2640	89°	58'50"				5.0	-4.3	-4.2	119.9		⊙	714		
9	"	"	✓					4.1					⊙ <sub>1</sub>			
10	W	2640	✓					12.0		+12.1	132.0		Δ			
11	"	"	90°	02'45"				10.0	12.3				Δ <sub>1</sub>			
12	"	1320	90°	07'00"				4.0		-6.7	125.3		-	713		
13		0					HI	5.4		-5.4	126.6			712	π	
14	E	1320	✓					3.6		-3.6	128.4		⊙	711		
15	"	"	89°	56'10"				5.0	-3.6				⊙ <sub>1</sub>			
16																
17																
18																
19																
20																

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### STADIA SURVEY NOTES

AREA NPR -4 STATE or PROVINCE ALASKA PAGE No. 53  
 LINE No.(s) 58 PARTY No. 1182 DATE 5 Day 4 Mo. 76 Yr. BOOK No.  
 SURVEYOR HELANDER RODMAN 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	Correc-tion	Center Hair			INST.	ROD		
1												128.4			
2														711	
3	W	1650	✓						6.1	+6.1	134.5		Δ		?
4	"	"		90° 02'20"					5.0	6.2			Δ <sub>1</sub>		L-58 SP 309+990
5	W	330		90° 25'11"					4.0	-6.4		128.1	-	710	L-65 SP 104+1280
6															709+990 X INT 4
7	N	40	✓						5.5	-5.5		129.0	-	105	L-65 134.8
8	S	1280	✓						4.4	-4.4		130.1	-	104	MARKER PIPE 136
9															
10															
11															
12															
13															
14	E	996	✓						5.7	-5.7		128.8	-	709	
15	"	2410	✓						2.7	-2.7		131.8	0	708	
16	"	"		89° 56'30"					5.0	-2.7			0 <sub>1</sub>		
17	W	2640	✓						9.2	+9.2	141.0		Δ		
18	"	"		90° 05'25"					5.0	9.3			Δ <sub>1</sub>		
19	"	1320		90° 07'25"					4.0	-6.9		134.1	-	707	
20		0							HI 5.4	-5.4		135.6		706	X

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### STADIA SURVEY NOTES

AREA NPR - 4 STATE or PROVINCE ALASKA PAGE No. 54  
 LINE No.(s) 58 PARTY No. 1182 DATE 5 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												141.0			
2															
3	E	1320	90°	05'40"				4.0		-6.2		134.8	-	705	
4	"	2640	✓					4.5		-4.5		136.5	⊙	704	
5	"	"	89°	52'44"				5.0	0.4				⊙		
6	W	2640	✓					11.9		+11.9	148.4		Δ		
7	"	"	90°	02'28"				10.0	12.0				Δ		
8	"	1320	90°	06'55"				4.0		-6.7		141.7	-	703	
9		0								-5.4		143.0	-	702	π
10	E	1320	89°	40'00"				4.0		+3.6		152.0	-	701	
11	"	2640	89°	29'38"				10.0	13.2	+13.4		161.8	⊙	700	
12	"	"	270°	31'00"				10.0	13.7				⊙		
13	W	1320	✓					10.3		+10.3	172.1		Δ		
14	"	"	90°	13'38"				5.0	10.3				Δ		
15		0								-5.4		166.7	-	699	π
16	E	1320	✓					13.9		-13.9		158.2	⊙	698	
17	"	"	90°	10'25"				10.0		-4.0			⊙		
18															
19															
20															

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 55  
 LINE No.(s) 58 PARTY No. 1182 DATE 6 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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	Correc-tion	Center Hair			INST.	ROD		
1												158.2			
2														698	
3	W	2640	89°	40' 11"					5.0	-10.1	-10.1	148.1		Δ	
4	"	"	270°	19' 40"					5.0	-10.0				Δ	
5	"	1320	89°	53' 50"					4.0		-1.7	146.4		-	697
6		0						H1	5.4		-5.4	142.7		-	696
7	E	1320	90°	20' 50"					4.0		-12.0	136.1		-	695
8	"	2640	✓						1.6		-1.6	146.5		○	694
9	"	"	89°	55' 30"					5.0	-1.7				○	
10	W	1815	✓						8.4		+8.4	154.9		Δ	
11	"	"	90°	06' 24"					5.0	8.4				Δ	
12	-	495	90°	08' 26"					4.0		-5.2	149.7		-	693
13		0													692+825 π ↑
14	E	825	90°	20' 00"					4.0		-8.8	146.1		-	692
15	"	2145	90°	16' 37"					10.0	-20.5	-20.3	134.6		○	691
16	"	"	269°	43' 55"					10.0	-20.1				○	
17		2640	89°	52' 00"					4.0	4.0	+4.2	138.8		Δ	
18	"	"	270°	07' 20"					10.0	4.5				Δ	
19		1320	89°	54' 00"					6.0		-3.7	135.1		-	690
20		0						H1	5.4		-5.4	133.4		-	689 π

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 56  
 LINE No.(s) 58 PARTY No. 1182 DATE 6 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												138.8				
2																
3	E	1320	✓					6.3		-6.3		132.5	-	688		
4	"	2640	✓					6.0		-6.0		132.8	0	687		
5	"	"	89°	54'44"				10.0	-6.1				0			
6	W	2640	✓					6.5		+6.5		139.3	0			
7	"	"	70°	61'53"				5.0	6.6				0			
8	"	1320	90°	07'55"				4.0		-7.1		132.2	-	686		
9		0						5.4		-5.4		133.9	-	685	π	
10	E	1320	89°	34'05"				5.0		+4.9		144.2	-	684		
11	"	2640	89°	41'47"				10.0	3.8	+3.9		143.2	0	683		
12	"	"	27°	18'33"				10.0	4.1				0			
13	W	2640	90°	02'05"				5.0	6.7	+6.6		149.8	0			
14	"	"	✓					6.6					0			
15	"	1320	90°	27'44"				4.0		-14.7		135.1	-	682		
16		0						5.4		-5.4		144.4	-	681		
17	E	1320	90°	13'10"				4.0		-9.1		140.7	-	680		
18	"	2640	✓					13.2		-13.2		136.6	0	679		
19	"	"	90°	04'05"				10.0	-13.3				0			
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 57  
 LINE No.(s) 5B PARTY No. 1182 DATE 6 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR HELANDER RODMAN 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												136.6				
2															679	
3	W	1320	✓					12.0		+12.0		148.6		Δ		
4	"	"	90°	05'16"				10.0	12.1					Δ <sub>1</sub>		
5		0						5.4		-5.4		143.2		⊙	678	
6	E	1320	90°	17'27"				10.0	-16.7	-16.7		131.9		⊙	677	
7	"	"	269°	42'50"				10.0	-16.6					⊙ <sub>1</sub>		
8	W	2640	✓					12.4		+12.4		144.3		Δ		
9	"	"	90°	03'00"				10.0	12.5					Δ <sub>1</sub>		
10	"	1320	90°	32'22"				4.0		-12.6		131.7		-	676	
11		0						5.4		-5.4		138.9		-	675	π ↑
12	E	1320	90°	16'00"				4.0		-10.2		134.1		-	674	
13	"	2640	✓					7.8		-7.9		136.4		⊙	673	
14	"	"	90°	03'40"				5.0	-8.0					⊙ <sub>1</sub>		
15	W	2640	89°	56'05"				5.0	2.1	+2.1		138.5		Δ		
16	"	"	270°	04'00"				5.0	2.1					Δ <sub>1</sub>		
17	"	1320	✓					5.0		-5.0		133.5		-	672	
18		0						5.4		-5.4		133.1		-	671	π ↑
19	E	1320	90°	29'00"				4.0		-15.2		123.3		-	670	
20	"	2640	90°	30'40"				5.0	-28.7	-28.2		110.3		⊙	669	

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" 269° 30' 35"

5.0 -27.7

⊙<sub>1</sub>

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 58  
 LINE No.(s) 58 PARTY No. 1182 DATE 6 Day 4 Mo. 76 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR MELANDER RODMAN 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	Correc-tion	Center Hair			INST.	ROD		
1															
2															
3	W	2640	89°	42'00"								110.3			
4	"	"	27°	18'10"				5.0	-8.7	-8.7	101.6		Δ	669	
5	"	1320	89°	39'10"				5.0	-8.8				Δ		
6		0						4.0		+4.0		105.6	-	668	
7	E	1320	90°	11'13"				5.4		-5.4		96.2		667	X
8	"	2640	✓					4.0		-8.3		93.3	-	666	
9	"	"	89°	58'17"				8.9		-8.9		92.7	0	665	
10	W	420	✓					10.0	-8.8				0		
11	"	"	90°	19'40"				7.4		+7.4	100.1		Δ		SP568 L-58
12		0						5.0	7.4				Δ		END OF LINE
13	E	900	89°	56'25"				4.0	-3.1	-3.0			Δ		COMMON WITH 664+900
14	"	"	270°	04'20"				4.0	-3.1	-3.0		97.1	0	664	900 X
15								4.0	-2.9				0		END OF LINE
16															
17															
18												100.1			
19												107.9			1976 ELEV L-58 END POINT
20												-7.8			1975 ELEV L-58 END POINT
															MISTLE

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CHECKED BY 1st \_\_\_\_\_

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