

STADIA SURVEY NOTES

AREA Umia STATE or PROVINCE Alaska PAGE No. 1
 LINE No.(s) U.S. PARTY No. 1173 DATE 4 Day 3 Mo. 78 Yr. BOOK No.
 SURVEYOR R. Tappin RODMAN K. Baff WEATHER: Blowing Snow 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											505.8		P4 L-3	138 EX	
2		0	✓					5.0		+5.0	510.8	Δ	1560	1-138 EX	
3		0	✓					5.0				Δ			
4		0	✓					5.0		-5.0	505.8	∇	1560	1-138 EX	
5		1320	89	57	20			15.0				0	7+230'		
6		✓	269	58	12			15.0		-14.6	496.2	0			
7															
8		2876	89	32	42			10.0		-62.0	434.2	Δ			
9		✓	271	24	44			10.0				Δ			
10		2640	89	00	24			11.0		+34.9	469.1		7		
11		2310	89	54	40			5.0		-1.3	432.9		6+550		
12		1760	✓					4.4		-4.3	429.9		6		
13		880	✓					6.3		-6.3	427.9		5		
14		0	✓					5.0		-5.0	429.2	∇	4		
15		880	✓					13.9		-13.9	420.3		3		
16		1760	✓					7.1		-2.0	427.2		2		
17		2640	✓					2.2		-2.1	432.2		1		
18															
19															
20															

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STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 2
 LINE No.(s) US PARTY No. 1173 DATE 4 Day 3 Mo. 78 Yr. BOOK No.
 SURVEYOR R Tippisch RODMAN K Bair WEATHER: Snowing 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											505.8	P4 L12	LINE 138 EX	
2		0	✓					5.0	+5.0	510.8		Δ	1560.2-138 EX	
3		0	✓					5.0				Δ		
4		0	✓					5.0	-5.0		505.8	κ	1560.4-138 EX	
5		1320	89	57	20			15.0	-14.6		496.5	0	7+230	
6		✓	269	59	17			15.0				0		
7														
8		1530	87	03	45			10.0	-68.1	428.7		Δ		
9		✓	272	54	28			10.0				Δ		
10		1136	89	38	00			4.5	+2.8		431.5		INT 138 EX = 1561 + 457 US = 7+624	
11		880	✓					10.4	-10.4		418.3		8	
12		0	✓					5.0	-5.0		423.7	κ	9	
13		880	✓					9.6	-9.6		419.1		10	
14		1760	89	41	00			14.0	-4.6		424.1	0	11	
15		✓	270	17	30			14.0				0		
16														
17		1760	89	51	23			10.0	+6.2	430.9		Δ		
18		✓	270	05	56			10.0				Δ		
19		880	✓					11.7	-11.7		419.2		12	
20		0	✓					5.0	-5.0		425.9	κ	13	

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AREA Itkikpak RIVER STATE or PROVINCE Alaska PAGE No. 3
 LINE No.(s) U5 PARTY No. 1173 DATE 4 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR A. Eppisch RODMAN K. Ball WEATHER: snowing 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.			
1															
2		880	✓						-15.5	415.4			14		
3		1760	✓						-5.9	425.0			15		
4		2640	89	54	44				-7.4	423.5	0		16		
5		✓ 270	03	47							0				
6															
7		2640	89	46	51				+1.5	425.5		Δ			
8		✓ 270	11	17								Δ			
9		1760	89	57	10				-9.5	416.0			17		
10		880	89	33	10				-4.1	421.4			18		
11		0	✓						-5.0	420.5		τ	19		
12		880	90	11	30				-13.9	411.6			20		
13		1760	89	44	33				-3.0	422.5			21		
14		2640	89	47	48				-2.1	423.4	0		22		
15		✓ 270	10	38							0				
16															
17		2640	90	01	25				+13.2	437.1		Δ			
18		✓ 269	55	16								Δ			
19		1760	✓						-11.1	426.0			23		
20		880	✓						-9.8	427.3			24		

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AREA Ikpikpak River STATE or PROVINCE Alaska PAGE No. 4
 LINE No.(s) 125 PARTY No. 1173 DATE 4 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Tippisch RODMAN K Bass WEATHER: snowing 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															
2		0	✓					5.0	-5.0		432.1	κ	25		
3		880	✓					4.9	-4.9		432.2		26		
4		1760	✓					7.1	-7.0		430.1		27		
5		2640	89	51	37			15.0	-8.4		428.7		28		
6		2750	89	55	13			5.0	-1.3		435.8	0	28+110		
7		✓	270	04	05			5.0				0			
8															
9		1540	91	06	10			15.0	+44.8	481.2		Δ			
10		✓	268	52	56			15.0				Δ			
11		770	90	56	00			15.0	-27.5		453.7		29		
12		0	✓					5.0	-5.0		476.2	κ	29+770		
13		110	✓					6.2	-6.2		475.0		30		
14		990	✓					8.4	-8.4		472.8		31		
15		1870	89	50	20			5.0	+0.3		481.5		32		
16		2750	89	40	42			5.0	+10.3		491.5	0	33		
17		✓	270	18	41			5.0				0	7		
18															
19		1650	94	28	55			15.0	+144.1	635.6		Δ			
20		✓	265	30	18			15.0				Δ			

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AREA Ikpiyuk RIVER STATE or PROVINCE Alaska PAGE No. 5
 LINE No.(s) U5 PARTY No. 1173 DATE 5 Day 4 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Ippisch RODMAN K Barr WEATHER: Partly Cloudy -30 P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲ B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1																
2		770	95	21	21			15.0		-86.9	548.7		34			
3		0	✓					5.0		-5.0	630.6	π	34+770			
4		110	88	41	44			1.0		+1.5	637.1	✓	35			
5		307	87	31	08			5.0		+8.3	643.91	0	35+197 (78052)			
6		✓	272	28	10			5.0				0				
7																
8																
9																
10																
11																
12		1233	89	13	28			15.0		-1.6	641.8					
13		✓	270	45	52			15.0								
14		550	88	25	27			11.0		+4.1	645.9					
15		0	✓					5.0		-5.0	636.8	π	36			
16		330	93	10	42			11.0		-29.3	612.5		37			
17		1210	89	48	10			11.0		-68	635.0		38			
18		2090	89	48	12			11.0		-37	638.1		39			
19		0970	89	33	40			11.0		+11.5	653.3	0	40			
20		✓	270	25	24			11.0				0				

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AREA Ikpiqpuk RIVER STATE OR PROVINCE Alaska PAGE No. 6
 LINE No.(s) U5 PARTY No. 1173 DATE 5 Day 4 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Ippisch RODMAN K Barr WEATHER: Partly Cloudy -30." 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.			
1															
2		1210	90	20	05			11.0	+18.2	671.1		Δ	40		
3		✓ 269	38	57				11.0				Δ			
4		336	✓					6.0	-6.0	665.1			41		
5		0	✓					5.0	-5.0	666.1		κ	41+330		
6		550	✓					7.8	-7.8	663.3			42		
7		1430	89	45	03			5.0	+1.3	672.4			43		
8		2310	89	42	02			5.0	+7.2	678.3			44		
9		3031	89	37	04			10.0	+10.1	681.2		0	44+721 (78051)		
10		✓ 270	22	20				10.0				0		681.15	
11															
12															
13															
14															
15															
16		1919	89	34	00			10.0	-4.4	676.6		Δ	44+721 (78051)		
17		✓ 270	25	12				10.0				Δ			
18		1760	89	53	54			2.0	+1.2	677.8			45		
19		880	✓					8.4	-8.4	668.2			46		
20		0	✓					5.0	-5.0	671.6		κ	47		

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AREA Tuklukuk RIVER STATE or PROVINCE Alaska PAGE No. 7
 LINE No.(s) U5 PARTY No. 1173 DATE 5 Day 4 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. Tippich RODMAN K. Bacc WEATHER: Partly Cloudy -30° 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		880	✓						15.5		-15.5	661.1		48	
3		1760	90	06	40				15.0		-18.3	658.3		49	
4		2640	90	09	42				11.0		-18.8	657.8	0	50	
5		✓	269	49	00				11.0				0		
6															
7		3120	89	31	10				11.0		-15.0	642.7			
8		✓	270	28	00				11.0				Δ		
9		2240	89	19	45				11.0		+15.3	658.0		51	
10		1360	89	16	10				11.0		+6.4	649.1		52	
11		480	91	30	21				11.0		-23.6	619.1		53	
12		0	✓						5.0		-5.0	627.7	π	53+480	
13		400	92	28	38				11.0		-28.3	614.4		54	
14		1280	89	36	18				5.0		+3.6	646.3	0	55	
15		✓	270	22	31				5.0				0		
16															
17		1760	89	19	25				5.0		-15.5	630.7		Δ	
18		✓	270	39	25				5.0				Δ		
19		1420	89	33	50				11.0		-0.1	630.6		55+330	
20		880	✓						3.7		-3.7	627.0		56	

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AREA T. Kpituk RIVER STATE or PROVINCE Alaska PAGE No. 8
 LINE No.(s) U.S. PARTY No. 1173 DATE 5 Day 3 Mo. 78 Yr. BOOK No.
 SURVEYOR R. Japisch RODMAN K. Barr WEATHER: Pty. Cloudy -30° 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.			
1															
2		0	✓					5.0		-5.0	625.7	π	57		
3		880	89	33	57			2.0		+4.7	635.4		58		
4		990	88	38	24			11.0		+12.3	643.0	0	58+110		
5		✓	271	20	20			11.0				0			
6															
7		2530	89	54	43			11.0		+7.4	650.4	Δ			
8		✓	270	04	02			11.0				Δ			
9		2090	90	28	38			11.0		-28.3	622.1		58+550		
10		1760	90	34	43			11.0		-28.7	621.7		59		
11		886	91	42	28			11.0		-37.2	613.2		60		
12		0	✓					5.0		-5.0	645.4	π	61		
13		880	88	00	32			11.0	R	+19.4	662.8	0	62		
14		✓	271	58	09			11.0				0			
15															
16		2640	88	56	07			15.0		-33.9	635.7	Δ			
17		✓	271	03	10			15.0				Δ			
18		1760	88	45	18			11.0		+27.3	663.0		63		
19		1430	✓					5.8		-5.8	629.9		63+330		
20		880	✓					6.4		-6.4	629.3		64		

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AREA Tkpiikut RIVER STATE or PROVINCE Alaska PAGE No. 9
 LINE No.(s) U.S. PARTY No. 1173 DATE 5 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. Jappisch RODMAN K Barr WEATHER: Pty Cloudy 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.			
1															
2		0	✓												
3		880	89	34	55										
4		1760	88	29	56										
5		✓	271	29	15										
6															
7		770	90	02	23										
8		✓	269	56	46										
9		0	✓												
10		110	✓												
11		990	90	49	25										
12		1870	91	00	24										
13		2750	91	06	05										
14		✓	268	53	15										
15															
16		1760	90	01	00										
17		✓	269	55	23										
18		880	✓												
19		0	✓												
20		880	✓												

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AREA Ikpiqpuk RIVER STATE or PROVINCE Alaska PAGE No. 10
 LINE No.(s) US PARTY No. 1173 DATE 6 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Tippisch RODMAN K Barr WEATHER: Clear -40° P.T.S. No. _____

LINE	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																
2		1760	89	42	40				5.0		+3.9	634.1		75		
3		2640	89	38	18				11.0		+5.0	635.2	0	76		
4		✓	270	19	33				11.0				0			
5																
6		1210	91	22	45				11.0		+40.5	675.5				
7		✓	268	35	13				11.0				Δ			
8		330	✓						12.2		-12.2	663.3				
9		0	✓						5.0		-5.0	670.5	κ	77+330		
10		550	89	30	43				2.0		+2.7	678.2		78		
11		1430	89	22	24				5.0		+10.4	685.9	0	79	TARGET	
12		✓	270	36	06				5.0				0			
13																
14		1760	90	04	40				5.0		+7.6	693.3				
15		✓	269	54	08				5.0				Δ			
16		880	90	03	30				15.0		-15.9	677.4		80		
17		0	✓						5.0		-5.0	688.3	κ	81		
18		880	90	09	50				11.0		+3.5	679.8		82		
19		1760	90	27	30				11.0		-25.0	668.3		83		
20																

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AREA Ikpikpak RIVER STATE OR PROVINCE Alaska PAGE No. 11
 LINE No.(s) U5 PARTY No. 1173 DATE 6 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Tippisch RODMAN K Barr WEATHER: Clear -40° P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	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				INST.	ROD			
1																
2		1870	90	32	12			11.0		-28.4	664.9	0	83+110			
3	✓	269	27	47				11.0				0				
4																
5		1650	87	59	07			11.0		-46.9	617.7	Δ				
6	✓	272	00	23				11.0				Δ				
7		880	87	49	40			11.0		+22.4	640.1		84			
8	0 ✓							5.0		-5.0	612.7	π	85	84 → 85 = 880'		
9		990	91	23	57			1.0		-25.2	592.5		85+990	85 → 86 = 1760'		
10		1760	89	33	10			4.0		+9.8	627.5		86			
11		2970	88	50	51			11.0		+486	666.3	0	86+1210			
12	✓	271	08	27				11.0				0				
13																
14		2310	90	09	08			11.0		+17.2	683.5	Δ				
15	✓	269	50	18				11.0				Δ				
16		1760	90	05	33			11.0		-13.8	669.7		87			
17	0 ✓							5.0		-5.0	678.5	π	88			
18		432	✓					2.7		-2.8	680.7	0	88+432 (780.5)			
19	✓	✓						2.9		-2		0				
20											680.7		TBM TRASP	680.65		

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AREA Ikpikuk RIVER STATE or PROVINCE Alaska PAGE No. 17
 LINE No.(s) U.S. PARTY No. 1173 DATE 6 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Tippisch RODMAN K Barr WEATHER: Clear -40° 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.			
1											680.7				
2		3088	✓						+6.7	687.6		Δ	88+482 (78050)		
3		✓	✓									Δ			
4		1760	✓						14.5		673.1		89		
5		0	✓						-5.0		682.6	π	90		
6		1760	89	38	52				+0.9		688.5		91		
7		2750	89	35	13				+8.7		696.3	0	91+990		
8		✓	270	24	05							0			
9															
10		1100	90	33	53					+21.9	718.4				
11		✓	269	25	44							Δ			
12		330	✓												
13		0	✓						-8.9		709.5		92		
14		1430	90	23	12				-5.0		713.4	π	92+330		
15		✓	269	36	20				-20.7		697.7	0	93		
16												0			
17		2310	90	05	38					+14.9	712.8				
18		✓	269	53	34							Δ			
19		1760	91	18	15				-51.0		661.8		93+500		
20		550	91	20	40				-23.9		688.9		94		

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STADIA SURVEY NOTES

AREA Ikpikpuk RIVER STATE or PROVINCE Alaska PAGE No. 12-13
 LINE No.(s) U-5 PARTY No. 1173 DATE 6 Day 3 Mo. 788 Yr. BOOK No. _____
 SURVEYOR R. Tappin RODMAN K. Barr WEATHER: Clear -40° 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.			
1															
2		0	✓					5.0	-5.0	707.8	κ	94+550			
3		1210	89	58	35			11.0	-10.6	702.2	0	95			
4		✓	270	00	45			11.0			0				
5															
6		1650	89	10	10			11.0	-12.8	689.6		Δ			
7		✓	270	49	00			11.0				Δ			
8		880	90	49	10			11.0	-23.6	666.0		95+770			
9		0	✓					5.0	-5.0	684.6	κ	95+1650			
10		110	91	38	45			4.0	-7.2	682.4		96			
11		830	92	14	20			1.0	-35.4	654.2		96+770			
12		1711	87	59	42			6.2	+53.6	743.2	0	96+1601 = TBM 78049			
13		✓	271	59	33			6.2				0' = 208.868 - L.M. 9			
14										743.24	TBM	78049			
15															
16										-0.8	MISTIE PAW				
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA Ikpikput RIVER STATE or PROVINCE Alaska PAGE No. 14
 LINE No.(s) -U-5 PARTY No. 1173 DATE 7 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. Ipprecht RODMAN K. Barr WEATHER: Clear -46° 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		2976	91	29	00			15.0		+92.5	835.7	743.2		TB ₄ 78099			
3	✓	268	29	35				15.0						Δ = SP 26 + 1601 - U-5			
4		2817	91	26	56			15.0		-86.1		749.6		Δ = SP 205 + 268 - U-9		97	
5		1057	91	30	43			11.0		-38.9		796.8				98	
6	0	✓						5.0		-5.0		830.7	κ			98 + 1057	
7		703	89	19	00			11.0		-2.6		823.1				99	
8		853	89	54	49			11.0		-9.1		826.6	0			99 + 550	
9	✓	270	05	00				11.0					0				
10																	
11		2200	90	23	37			11.0		+26.1	853.7			Δ			
12	✓	269	36	07				11.0						Δ			
13		930	91	09	30			11.0		-31.0		822.7				100	
14	0	✓						5.0		-5.0		848.7	κ			100 + 990	
15		770	89	08	35			11.0		-0.5		853.2	0			101	
16	✓	270	51	10				11.0		-6			0				
17																	
18		2140	91	43	47			11.0		+75.6	928.8			Δ			
19	✓	268	16	00				11.0						Δ			
20		1810	92	09	25			11.0		-79.1		849.7				101 + 330	

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STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 15
 LINE No.(s) U5 PARTY No. 1173 DATE 7 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Tippisch RODMAN K Bass WEATHER: Clear -46° 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		1210														
2		380	91	15	55				11.0	-19.4	909.4		102			
3		0	✓						5.0	-5.0	923.8	π	102+380			
4		830	89	57	50				11.0	-10.5	918.3	0	102+1210			
5		✓	270	01	40				11.0			0				
6																
7		2310	89	45	45				11.0	-1.4	919.8	Δ				
8		✓	270	13	56				11.0			Δ				
9		1760	90	03	10				11.0	-12.6	907.2		103			
10		0	✓						5.0	-5.0	914.8	π	104			
11		1760	88	02	40				11.0	+49.1	968.9		105			
12		2310	88	20	48				11.0	+55.7	975.5	0	105+550			
13		✓	271	38	53				11.0			0				
14																
15		1320	90	41	13				11.0	-26.8	1002.4	Δ				
16		✓	269	18	47				11.0			Δ				
17		110	✓						6.2	-6.2	996.2		106			
18		110	✓						5.0	-5.0	997.4	π	106+110			
19		1400	91	23	45				11.0	-37.8	964.6		106+210			
20		1650	90	33	00				11.0	-26.8	975.6		107			

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STADIA SURVEY NOTES

AREA Ikpijuk RIVER STATE or PROVINCE Alaska PAGE No. 16
 LINE No.(s) US PARTY No. 1173 DATE 7 Day 3 Mo. 28 Yr. BOOK No. _____
 SURVEYOR R Ippisch RODMAN K Barr WEATHER: Clear -46° 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		2860	89	37	10			11.0		11.0	+81		1010.5	0	107+1210	
3		✓	270	22	40			11.0		11.0				0		
4																
5		1320	87	54	02			11.0		11.0	-37.4	973.2		Δ		
6		✓	272	05	46			11.0		11.0				Δ		
7		170	87	35	05			11.0		11.0	+21.5		994.7		108	
8		0	✓					5.0		5.0	-5.0		968.2	π	108+770	
9		660	94	44	10			11.0		11.0			907.7	0	108+1430	
10		✓	265	15	53			11.0		11.0	-65.5			0		
11																
12		2090	87	29	47			11.0		11.0	-80.4	827.2		Δ		
13		✓	272	30	22			11.0		11.0				Δ		
14		1760	88	28	43			11.0		11.0	+35.8		863.0		109	
15		990	93	03	38			11.0		11.0	-63.8		763.4		109+770	
16		0	✓					5.0		5.0	-5.0		822.2	π	110	
17		285	✓					13.5		13.5	-13.5		813.7	0	110+285	
18		✓	✓					13.5		13.5				0		
19																
20																

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STADIA SURVEY NOTES

AREA Ikpikput RIVER STATE or PROVINCE Alaska PAGE No. 17
 LINE No.(s) 115 PARTY No. 1173 DATE 7 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Ippisch RODMAN K Barr WEATHER: Clear -46° P.T.S. No. _____

LINE	Bearing of Sight	Stadio Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1																
2		2345	88	02	10			10.8		-69.7	744.4		Δ	110+285		
3		✓ 271	57	37				10.8					A			
4		870	93	22	30			4.0		-55.2		689.2		111		
5		540	95	40	40			1.0		-54.4		690.0		11+330		
6		0	✓					5.0		-5.0		*639.4	π	11+870	*739.4	
7		890	88	53	00			15.0		*2.4		746.8		112		
8		2401	86	19	02			15.0		+189.3		883.7	0	112+1511 (78403)		
9		✓ 273	40	50				15.0					0		883.66	
10																
11																
12																
13																
14		0	✓					5.0		+5.0	888.7		Δ	112+1511		
15		0	✓					5.0					Δ			
16		0	✓					5.0		-5.0		883.7	π	112+1511		
17		249	91	12	53			15.0		-20.3		868.4		113		
18		570	93	44	50			15.0		-52.3		836.4	0	113+330		
19		✓ 266	14	20				15.0					0			
20																

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STADIA SURVEY NOTES

AREA Umia t STATE or PROVINCE Alaska PAGE No. 18
 LINE No.(s) U.S PARTY No. 1173 DATE 8 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. Tippisch RODMAN K Barr WEATHER: Clear -35° 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		2420	84	26	50				11.4	-222.4	614.0		Δ	113+380		
3	✓	275	31	50					11.4				Δ			
4		990	87	09	58				1.0	+48.0	661.9			114		
5	0	✓							5.0	-5.0	609.0		π	114+990		
6		770	89	23	50				11.0	-2.9	611.1			115		
7		2530	88	59	50				11.0	+33.0	646.9		0	116		
8	✓	270	59	00					11.0				0			
9																
10		1760	89	19	05				11.0	-9.7	637.3		Δ			
11	✓	270	39	32					11.0				Δ			
12	0	✓							5.0	-5.0	632.3		π	117		
13		1760	89	17	06				15.0	+6.7	644.0		0	118	PIPE EOL	
14	✓	270	41	35					15.0				0			
15																
16		2530	89	08	48				15.0	-22.8	621.2		Δ			
17		770	89	41	50				11.0	-6.9	614.2			TS 1		
18	0	✓							5.0	-5.0	616.2		π	TS 4 770		
19		990	92	22	12				11.0	-51.9	569.2			TS 2		
20		2750	91	08	40				11.0	-65.8	555.4			TS 3		

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STADIA SURVEY NOTES

AREA Umiat STATE or PROVINCE Alaska PAGE No. 19
 LINE No.(s) U5 PARTY No. 1173 DATE 8 Day 3 Mo. 78 Yr. BOOK No.
 SURVEYOR R Tippisch RODMAN K Barr WEATHER: Clear - 35° P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2		3300	90	47	00				11.0	-55.9		565.2	0	TS3+	550	
3																
4		2970	88	42	50				11.0	-55.8	509.4		A			
5		1760	89	06	06				4.0	+23.7		523.1		TS4		
6		0	✓						5.0	-5.0		504.4	X	TS5		
7		1760	90	18	40				4.0	-13.5		495.9		TS6		
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
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