

STADIA SURVEY NOTES

AREA Ikpiak River STATE or PROVINCE Alaska PAGE No. 1
 LINE No.(s) 1 PARTY No. 1173 DATE 19 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Tippisch RODMAN K Barr WEATHER: Cloudy 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		2530	90	12	42			15.0	+25.8	941.3	915.52	TRM	78111		
3	✓	269	43	00				15.0				Δ	13 (78111)		
4		1650	90	59	32			15.0	-43.5		897.8		12		
5		1540	91	09	57			21.0	HR	-52.3	889.0		11+770		
6		770	91	00	17			4.0		-17.5	923.8		11		
7	0	✓						5.0		-5.0	936.3	κ	10+770		
8	110	✓						8.8		-8.8	932.5		10		
9	990	91	45	30				15.0		-45.4	895.9		9		
10		1870	91	32	55			15.0		-66.0	875.3	0	8		
11	✓	268	25	00				15.0				0			
12															
13		2080	88	34	44			15.0		-35.3	840.0		Δ		
14	✓	271	20	41				15.0		-47.9	8		Δ		
15		1200	90	09	45			15.0		-17.7	822.3		7		
16		320	92	01	20			7.0		-18.3	821.7		6		
17	0	✓						5.0		-5.0	835.0	κ	5+560		
18		560	92	52	04			15.0		-43.0	797.0		5		
19		1440	92	56	07			21.0	HR	-94.7	745.3		4		
20															

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STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 2
 LINE No.(s) U1 PARTY No. 1173 DATE 2 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Ippisch RODMAN T Sherrill WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2		2320	92	14	25					-984	741.6	0	3		
3		✓ 267	43	05								0			
4															
5		1760	89	53	00					+3.9	745.4	Δ			
6		✓ 270	04	56								Δ			
7		880	89	45	15					-0.2	745.2		2		
8		0	✓							-5.0	740.4	X	1	PIPE	
9		880	89	45	10					-2.2	743.2		TS1		
10		1760	90	03	40					-4.8	740.6		TS2		
11		2640	89	59	10					-2.2	743.2	0	TS3		
12		2500											4		
13		4400	89	59	28					+1.9	745.1	Δ	TS5		
14		3520	89	58	30					-16.2	728.9		TS4		
15		2640									728.9		TS5	IN RIVER	
16		1760									728.9		TS6		
17		880	90	16	50					-8.3	736.8		TS7		
18		✓ 0								-5.0	740.1	X	TS8		
19		880	90	07	10					-5.8	739.3		TS9		
20		1760	89	56	40					-2.2	742.9		TS10		

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STADIA SURVEY NOTES

AREA Ikpikpink RIVER STATE or PROVINCE Alaska PAGE No. 3
 LINE No.(s) 01 PARTY No. 1173 DATE 20 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. Ipsich RODMAN K Barr WEATHER: Cloudy 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		2640	89	57	00				40	-1.6		743.6		TS 11	
3		3520	89	57	55				4.0	-1.6		743.5		TS 12	
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA T. Kipikuk RIVER STATE or PROVINCE Alaska PAGE No. 4
 LINE No.(s) 01 PARTY No. 1173 DATE 19 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. Tippel RODMAN K. Barr WEATHER: 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	Correction	Center Hair			INST.	ROD			
1													915.52			
2		2750	88	56	00			5.0		-45.4	870.1			Δ	78111 = 3P 13	
3	✓	271	01	36				5.0						Δ		
4		1870	89	49	26			11.0		-5.2		864.9			14	
5		990	92	56	25			21.0	HR	-7.8		798.3			15	
6	110	✓						7.8		-7.8		862.3			16	
7	0	✓						5.0		-5.0		865.1	π		16+110	
8		770	93	55	15			22.0	HR	-74.6		795.5			17	
9		1100	93	50	30			15.0		-88.7		781.4			17+330	
10		1650	92	23	07			4.0		-72.6		797.5			18	
11		2200	90	44	44			4.0		-33.2		836.9	0		18+550	
12	✓	269	13	10				4.0					0			
13																
14		2970	90	09	38			4.0		+12.9	849.8			Δ		
15	✓	269	48	33				4.0						Δ		
16		2640	90	33	50			11.0		-36.8		813.0			19	
17		1760	91	24	16			11.0		-54.1		795.7			20	
18		880	91	31	43			11.0		-34.5		815.3			21	
19	0	✓						5.0		-5.0		844.8	π		22	
20		880	88	04	22			11.0		+18.6		868.4			23	

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AREA Ikpikpuk RIVER STATE or PROVINCE Alaska PAGE No. 5
 LINE No.(s) U1 PARTY No. 1173 DATE 19 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. Tapisc h RODMAN K. Barr WEATHER: cloudy 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		1760	87	49	57				11.0		+55.6	905.4		24		
3		2090	87	57	32				11.0		+63.0	912.8	0	24+330		
4		✓	272	00	38				11.0				0			
5												983.9				
6		2310	91	28	35				11.0		+71.0	933.9	Δ			
7		✓	268	29	34				11.0				Δ			
8		1760	92	19	06				21.0	HR	-92.1	891.8		25		
9		880	92	04	42				11.0		-42.9	941.0		26		
10		0	✓						5.0		-51.0	978.9	928.9	π	27	
11		880	89	15	34				11.0		+0.1	984.0	0	28		
12		✓	270	42	32				11.0				0			
13																
14		3520	89	22	57				11.0		-26.2	957.8		Δ		
15		✓	270	35	08				11.0					Δ		
16		2640	89	46	15				11.0		-0.3	957.5		29		
17		1760	91	21	26				11.0		-82.6	905.2		30		
18		880	93	38	45				11.0		-66.9	890.9		31		
19		0	✓						5.0		-51.0	952.8	π	32		
20		880	88	35	30				11.0		+10.6	968.4		33		

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AREA Ikpikpuk RIVER STATE or PROVINCE Alaska PAGE No. 6
 LINE No.(s) U1 PARTY No. 1173 DATE 19 Day 3 Mo. 78 Yr. BOOK No.:
 SURVEYOR R. Juppisch RODMAN K Barr WEATHER: Cloudy 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		1760	88	39	10			11.0		+30.4		988.2		34		
3		2640	88	19	20			11.0		+65.7		1023.5	0	35		
4		✓	271	38	50			11.0					0			
5																
6		748	91	24	08			11.0		+29.5	1053.0		Δ	25+113		
7		✓	268	33	57			11.0					Δ			
8		0	✓					5.0		-5.0		1048.0	π	35+748 = 78112		
9		0	✓					5.0		-5.0		1048.0	0	35+748 = 78112		
10		0	✓					5.0					0			1047.95
11												1048.0	TBM	78112		
12																
13												0.0	MISTAKE RAW			
14																
15												1048.0				
16		0	✓					5.0		+5.0	1053.5		Δ	35+748 (78112)		
17		0	✓					5.0					Δ			
18		0	✓					5.0		-5.0		1048.0	π	35+748 (78112)		
19		132	✓					6.0		+6.0		1047.5		36		
20		1012	90	42	27			21.0	HA	-33.5		1020.0		37		

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AREA Ikpikpuk RIVER STATE or PROVINCE Alaska PAGE No. 7
 LINE No.(s) U PARTY No. 1173 DATE 19 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. Jippisch RODMAN K. Rapp WEATHER: 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.	ROD			
1																
2		1892	90	42	30				11.0	-34.3	1019.2		38			
3		2772	90	51	26				11.0	-53.1	1006.4	0	39			
4		✓ 269	06	30					11.0			0				
5																
6		2090	91	15	32				11.0	+57.3	1058.0		Δ			
7		✓ 268	47	48					11.0				Δ			
8		1210	91	40	39				11.0	-46.4	1011.6		40			
9		330	90	25	55				11.0	-13.5	1044.5		41			
10		0	✓						5.0	-5.0	1053.0	π	41+330			
11		550	91	10	15				11.0	-22.2	1035.8		42			
12		1100	91	55	05				11.0	-48.1	1009.9	0	42+550			
13		✓ 268	03	08					11.0			0				
14																
15		2970	88	14	05				11.0	-80.0	930.2		Δ			
16		✓ 271	44	15					11.0				Δ			
17		2640	88	29	16				11.0	+58.8	989.0		43			
18		1760	89	08	33				11.0	+15.4	945.6		44			
19		880	89	34	52				11.0	-4.6	925.6		43			
20		0	✓						5.0	-5.0	925.2	κ	46			

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AREA Ikpikpuk RIVER STATE or PROVINCE Alaska PAGE No. 8
 LINE No.(s) U1 PARTY No. 1173 DATE 19 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. Ippisch RODMAN K Barr WEATHER: Cloudy 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		880	89	49	19				11.0	-82		922.0		47		
3		1210	90	10	07				11.0	-149		915.3	0	47+330		
4	✓	269	47	50					11.0				0			
5																
6		550	87	29	35				11.0	-12.9	902.7		Δ			
7	✓	272	28	34					11.0				Δ			
8	0	✓							5.0	-5.0		897.7	κ	48		
9		880	93	03	07				11.0	-57.8		844.9		49		
10		1760	92	35	38				11.0	-91.0		811.7	0	50		
11	✓	267	22	37					11.0				0			
12																
13		2640	86	33	25				11.0	-147.0	663.1		Δ			
14	✓	273	24	50					11.0				Δ			
15		1760	86	44	42				11.0	+89.0		752.1		51		
16		880	87	08	56				11.0	+32.5		695.6		52		
17	0	✓							5.0	-5.0		658.1	κ	53		
18		880	92	34	57				11.0	-50.6		612.5		54		
19		1430	92	34	26				15.0	-79.6		583.5	0	54+550		
20	✓	267	23	18					15.0				0			

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STADIA SURVEY NOTES

AREA Ikpitpak RIVER STATE or PROVINCE Alaska PAGE No. 9
 LINE No.(s) U 1 PARTY No. 1173 DATE 19 Day 3 Mo. 28 Yr. BOOK No. _____
 SURVEYOR R. Tappin RODMAN K. Barr WEATHER: 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.	ROD			
1																
2		1760	90	20	55			15.0		+26.1	612.0		Δ	54	550	
3		✓	269	37	20			15.0					Δ			
4		1430	91	56	10			11.0		-59.3		552.7		55		
5		550	91	37	47			11.0		-26.6		585.4		56		
6		0	✓					5.0		-5.0		607.0	κ	56+550		
7		330	88	41	02			11.0		-3.4		608.6		57		
8		1210	88	15	53			11.0		+25.7		637.7		58		
9		2090	88	26	00			11.0		+46.2		658.2		59		
10		2970	88	18	55			11.0		+75.7		687.7	0	60		
11		✓	271	39	15			11.0					0			
12																
13		2310	92	01	15			11.0		+93.0	781.1		Δ			
14		✓	267	56	51			11.0					Δ			
15		1430	92	22	40			11.0		-70.3		710.8		61		
16		550	92	49	12			11.0		-38.1		7430		62		
17		0	✓					5.0		-5.0		776.1	κ	62+550		
18		330	87	25	40			11.0		+10.8	3.8	791.9		63		
19		1210	88	54	38			21.0	HR	+2.0		783.1		64		
20		2090	88	53	53			11.0		+36.3	29.3	817.4		65		

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STADIA SURVEY NOTES

AREA Ikpikuk RIVER STATE or PROVINCE Alaska PAGE No. 10
 LINE No.(s) U1 PARTY No. 1173 DATE 19 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Ippisch RODMAN K Barr WEATHER: Cloudy 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		2090														
2		2420	88	51	43			21.0		+26.6		807.7	6	654	330	
3	✓		271	06	40			21.0					0			
4																
5		1980	85	55	46			21.0		-119.2	689.0		Δ			
6	✓		274	02	40			21.0					Δ			
7		1430	85	57	42			11.0		+89.7		778.7		66		
8		550	87	36	50			11.0		+11.9		700.9		67		
9	0		✓					5.0		-5.0		684.0	π	67+550		
10		330	90	27	49			11.0		-13.7		675.3		68		
11		1210	89	16	28			11.0		+4.4		693.4		69		
12		2090	88	50	33			11.0		+30.8		719.8	0	70		
13	✓		271	07	48			11.0					0			
14																
15		1760	92	46	15			11.0		+9.4	816.4		Δ			
16	✓		267	12	14			11.0					Δ			
17		880	93	07	30			11.0		-52.0		757.4		71		
18	0		✓					5.0		-5.0		811.4	π	72		
19		880	87	15	17			11.0		+31.2		847.6		73		
20																

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STADIA SURVEY NOTES

AREA Ikpikpok RIVER STATE or PROVINCE Alaska PAGE No. 11
 LINE No.(s) U1 PARTY No. 173 DATE 19 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Ippisch RODMAN K Barr WEATHER: Cloudy 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														
2		109.6	87	29	38			11.5	+36.2	852.6	0	73+216	(78114)	
3		✓ 272	28		52			11.5			0			
4										852.62		TBM 78114		
5														
6													-3.3 MISTIE ROW	
7														
8										852.6		TBM 78114		
9												Δ 78114 = SP 73+216		
10												Δ		
11														
12														
13														
14														
15										852.6		TBM 78114		
16		554	86	59	45			15.0	-13.9	838.6		Δ 78114 = SP 73+216		
17		✓ 272	58		27			15.0				Δ		
18		0	✓					5.0	-5.0	833.6		T 73+770		
19		110	✓					14.7	-14.7	823.9		74		
20		990	94	30	23			11.0	-88.8	749.8		75		

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STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 12
 LINE No.(s) U1 PARTY No. 1173 DATE 20 Day 3 Mo. 28 Yr. BOOK No. _____
 SURVEYOR R Tapscott RODMAN K Barr WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2		1870	93	56	22				11.0	-139.4	699.2			76	75 → 76 = 880'	
3		2640	94	08	40				11.0	-22.5	636.1	0		76+770	(76 → 77 = 1760')	
4	✓	265	49	10					11.0			0				
5																
6		1760	84	35	08				11.0	-154.6	481.3		Δ			
7	✓	275	22	48					11.0				Δ			
8		770	85	40	50				11.0	+47.0	528.3			77		
9	0	✓							5.0	-5.0	476.3	κ		77+770		
10		990	92	34	50				11.0	-55.6	425.7			78		
11		2750	91	54	48				11.0	-102.7	378.6			79		
12		9080	91	47	00				11.0	-107.5	373.8	0		79+330		
13	✓	268	11	07					11.0			0				
14																
15		2640	88	24	55				11.0	-61.4	312.4		Δ			
16	✓	271	33	04					11.0				Δ			
17		1210	89	16	20				11.0	+4.4	316.8			80		
18	0	✓							5.0	-5.0	307.4	κ		80+1210		
19		550	88	17	55				4.0	+12.3	324.7			81		
20																

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STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 13
 LINE No.(s) 111 PARTY No. 1173 DATE 20 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Tippisch RODMAN K Barr WEATHER: Clear 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		1540	86	41	23			11.0	+77.5	389.9	0	84+990			
3	✓	273	16	36				11.0			0				
4															
5		2530	94	00	35			11.0	+188.5	578.3	Δ				
6	✓	265	57	22				11.0			Δ				
7		1760	94	10	35			11.0	-139.1	439.2		82			
8	0	✓						5.0	-5.0	573.3	π	83			
9		1760	85	17	33			11.0	+133.5	711.8		84			
10		2090	85	19	32			11.0	+158.8	737.1	0	84+330			
11	✓	274	38	20				11.0			0				
12															
13		880	92	53	50			11.0	+55.7	792.8	Δ				
14	✓	267	04	13				11.0			Δ				
15	0	✓						5.0	-5.0	787.8	π	84+1210			
16		335	89	02	24			5.0	+0.6	793.4	0	84+1545 (78115)			
17	✓	270	55	32				5.0			0				
18										793.4	TBM	78115			
19															
20	✓										-0.5	MISTIE	RAW		

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STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 14
 LINE No.(s) 11 PARTY No. 1173 DATE 20 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. Zippich RODMAN K. Barr WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												793.4	TBM		78 115	
2		765	86	30	32				5.0	-31.3	761.9		Δ		84+154.5 (78115)	
3	✓	273	27	15					5.0				Δ			
4		550	85	56	15				11.0	+28.0	789.9			85		
5		0	✓						5.0	-5.0	756.9		X	85+550		
6		1210	95	26	35				11.0	-125.7	636.2			86		
7		1760	95	20	42				11.0	-175.4	586.5		o	86+550		
8	✓	264	37	27					11.0				o			
9																
10		1980	91	55	00				11.0	+77.7	664.1		Δ			
11	✓	268	03	14					11.0				Δ			
12		1760	92	43	40				11.0	-94.7	569.4			86+770		
13		770	94	03	25				4.0	-58.5	605.6			87		
14		0	✓						5.0	-5.0	659.1		X	87+770		
15		990	86	42	16				11.0	+45.9	710.0			88		
16		1320	86	56	20				11.0	+59.2	723.3		o	88+330		
17	✓	273	02	08					11.0				o			
18																
19		660	90	05	04				11.0	+12.2	735.4		Δ			
20	✓	269	52	31					11.0				Δ			

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STADIA SURVEY NOTES

AREA Tlepitok RIVER STATE or PROVINCE Alaska PAGE No. 15
 LINE No.(s) 121 PARTY No. 1178 DATE 20 Day 3 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. J. Ipsich RODMAN K. Barr WEATHER: Clear 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		0	✓						5.0	-5.0	730.4	π	88+990		
3		770	93	02	10				11.0	-51.9	683.5	0	89		
4		✓	266	56	22				11.0			0			
5															
6		1650	84	49	35				11.0	-137.5	545.8	Δ			
7		✓	275	08	55				11.0			Δ			
8		0	✓						5.0	-5.0	540.8	π	89+1650		
9		110	97	06	30				4.0	-17.6	528.2		90		
10		220	97	11	22				1.0	-28.5	517.3		90+110		
11		1540	89	59	00				11.0	-10.8	535.0	0	90+1430		
12		✓	269	59	30				11.0			0			
13															
14		1100	87	56	45				11.0	-28.4	506.3	Δ	90+1430		
15		✓	272	03	10				11.0			Δ			
16		770	89	42	40				11.0	-71	499.2	.	91		
17		440	93	22	20				11.0	-36.9	469.4	π	91+330		
18		0	✓						5.0	-5.0	501.3	π	91+270		
19		660	93	28	30				11.0	-51.0	455.3		91+1430		
20		990	90	29	10				11.0	-19.4	486.9		92		

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STADIA SURVEY NOTES

AREA IKPIKPAK RIVER STATE or PROVINCE ALASKA PAGE No. 16
 LINE No.(s) U-1 PARTY No. 1173 DATE 21 Day MAR Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERILL RODMAN K. BARR WEATHER: CLEAR 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	N	2750		87 21 50				11.0	+115.1		621.4	0	93		
3		✓		272 36 45				11.0				0			
4															
5	S	2530		91 49 00				11.0	+91.6	712.8		A	93		
6		✓		268 09 40				11.0				A			
7		770		92 02 00				11.0	-38.3		674.5		94		
8		0		✓				5.0	-5.0		707.8	X	94+770		
9	N	990		86 12 40				11.0	+54.4		767.2		95		
10		1980		86 10 40				11.0	+120.7		833.5	0	95+990		
11		✓		273 48 10				11.0				0			
12															
13	S	194		89 14 50				11.0	+8.5	842.0		A	95+990		
14		✓		270 43 58				11.0				A			
15		0		✓				5.0	-5.0		837.0	X	95+1184		
16		0		✓				5.0	-5.0		837.0	0	95+1184 = 7816		
17		0		✓				5.0				0			
18											837.0	TBA	7816		
19															
20											+0.9		MISTIE RAW		

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STADIA SURVEY NOTES

AREA IKPIK RIVER STATE or PROVINCE ALASKA PAGE No. 17
 LINE No.(s) U-1 PARTY No. 1173 DATE 21 Day MAR Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERMILL RODMAN K. BARR WEATHER: CLEAR P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											837.0			TBM 7816	
2		0	✓					5.0	+5.0	842.1		Δ	95+1184	= 7816	
3		0	✓					5.0				Δ			
4		0	✓					5.0	-5.0		837.0	π	95+1184		
5	N	576		92	13	50		11.0	-33.5		808.6	0	96		
6		✓		267	45	00		11.0				0			
7															
8	S	2750		85	50	10		11.0	-188.4	620.8		Δ	96		
9		✓		274	08	40		11.0				Δ			
10		990		86	18	10		11.0	+52.9		673.7		97		
11		0	✓					5.0	-5.0		615.8	π	97+990		
12	✓	770		93	03	40		4.0	-45.1		575.7		98		
13		1540		93	01	00		1.0	-82.0		538.8		98+770		
14		2530		91	37	10		11.0	-82.8		538.0	0	99		
15		✓		268	21	40		11.0				0			
16															
17	S	2750		90	29	20		11.0	+347	572.8		Δ	99		
18		✓		369	29	40		11.0				Δ			
19		990		90	32	50		11.0	-20.4		552.4		100		
20		0	✓					5.0	-5.0		517.8	π	100+990		

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STADIA SURVEY NOTES

AREA 1 KPIKPAK RIVER STATE or PROVINCE ALASKA PAGE No. 18
 LINE No.(s) 4-1 PARTY No. 1173 DATE 21 Day MAK Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHELLUM RODMAN K. BALL WEATHER: CLEAR-WINDY 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	N	770	91	37	30			11.0	-33.0		539.8	0	101		
3		✓	268	21	00			11.0				0			
4															
5	S	2310	89	16	30			11.0	-17.8	522.2		Δ	101		
6		✓	270	42	00			11.0				Δ			
7		1320	92	44	00			1.0	-63.9		458.3		101 + 990		
8		550	92	40	20			4.0	-29.6		492.6		102		
9		0						5.0	-5.0		517.2	π	102 + 550		
10	N	880	89	37	00			11.0	-5.3		516.9	0	102 + 1430		
11		✓	270	21	30			11.0				0			
12															
13	S	330	88	43	50			11.0	-7.7	509.7		Δ	102 + 1430		
14		✓	273	14	20			11.0				Δ			
15		0	✓					5.0	-5.0		504.7	π	103		
16	N	550	93	13	00			1.0	-31.9		477.8		103 + 550		
17		1760	89	11	40			4.0	+20.8		530.5		104		
18		2750	88	36	10			11.0	+55.6		565.3	0	104 + 990		
19		✓	271	22	20			11.0				0			
20															

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STADIA SURVEY NOTES

AREA ILKAPUK RIVER STATE OR PROVINCE ALASKA PAGE No. 19
 LINE No.(s) U-1 PARTY No. 1173 DATE 21 Day MAR Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERRILL RODMAN K. BARR WEATHER: CLEAR - WINDY 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	S	860	88	37	00			11.0	-4.8	560.6		Δ	104+990		
3		✓	271	21	20			11.0				Δ			
4		308	88	58	50			2.0	+3.4		564.0	⊙	104+1342 = TBM 78118		
5		✓	270	59	20			2.0				⊙			
6											564.0		TBM 78118		
7															
8											-1.4		MISTIE - RAW		
9															
10											564.0		TBM 78118	563.95	
11	S	308	88	58	50			2.0	-3.4	560.6		Δ	104+1342 = TBM 78118		
12		✓	270	59	20			2.0				Δ			
13		0	✓					5.0	-5.0		555.6	✓	104+1650		
14	N	110	✓					11.4	-11.4		549.2		105		
15		1870	93	53	40			11.0	-137.9		422.7		106		
16		2860	93	43	00			11.0	-196.8		363.8	⊙	106+990		
17		✓	266	15	30			11.0				⊙			
18															
19	S	2200	90	59	00			11.0	+49.1	412.8		Δ	106+990		
20		✓	268	59	40			11.0				Δ			

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STADIA SURVEY NOTES

AREA IKPIKPIK RIVER STATE or PROVINCE ALASKA PAGE No. 20
 LINE No.(s) U-1 PARTY No. 1173 DATE 21 Day MAR Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERRILL RODMAN K. BARR WEATHER: CLEAR P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc- tion	Center Hair			INST.	ROD			
1																
2	S	1210	92	40	40				11.0	-67.5		345.3		107		
3	0	✓							5.0	-5.0		407.8	π	107 + 1210		
4	N	550	✓						3.0	-3.0		409.8		T.S. 1		
5		2310	88	12	10				11.0	+61.6		474.4		T.S. 2		
6		3300	88	23	20				11.0	+82.0		494.8	⊙	T.S. 2 + 990		
7																
8	S	4390	89	16	60				11.0	-44.7	450.1		Δ	T.S. 2 - 990		
9		3520	89	45	30				4.0	+11.1		461.2		T.S. 3		
10		2970	89	58	00				4.0	-2.1		448.0		T.S. 3 + 550		
11		1760	89	57	10				4.0	-2.5		447.6		T.S. 4		
12	0	✓							5.0	-5.0		445.1	π	T.S. 5		
13	N	1760	92	51	10				4.0	-91.5		358.6	⊙	T.S. 6 NORTH E.O.L.		
14																
15																
16																
17																
18																
19																
20																

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