

STADIA SURVEY NOTES

AREA Ikpiqruk RIVER STATE or PROVINCE Alaska PAGE No. 1  
 LINE No.(s) U10 PARTY No. 1173 DATE 10 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Tippel RODMAN K Barr WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Beading 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											512.6				
2		1870	88	36	40			15.0	-29.3	483.3		Δ	5-78069		
3	✓		271	19	12			15.0				Δ	78069-50.51+667	6U4	
4	110		✓					5.8	-5.8		477.5	1	4		
5	0		✓					5.0	-5.0		478.3	π	3+1650		
6		880	90	40	38			11.0	-21.4		461.9		3+990		
7		1650	89	15	33			11.0	+9.5		492.8	0	3		
8	✓		270	40	46			11.0				0			
9															
10		2970	89	11	40			11.0	-29.5	463.4		Δ			
11	✓		270	44	55			11.0				Δ			
12		1210	91	01	13			11.0	-32.5		430.9		2		
13		660	91	58	55			11.0	-33.8		429.6		1+1210		
14	0		✓					5.0	-5.0		458.4	π	1+550		
15		550	85	56	15			11.0	+28.0		491.3		1	PIPE	
16		880	86	44	34			11.0	+33.0		502.4	0	1-330		
17		660	89	19	25			11.0	-3.2	496.0		Δ			
18	0		✓					5.0	-5.0		491.0	π	1-990		
19		770	92	01	35			11.0	-38.2		457.8		TS1		
20		2530	90	06	45			11.0	-15.8		480.2	0	TS2		

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## STADIA SURVEY NOTES

AREA Ikpikpuk RIVER STATE or PROVINCE Alaska PAGE No. 2  
 LINE No.(s) 110 PARTY No. 1123 DATE 10 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch 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		4730	89	54	55				11.0	+3.5	483.7		Δ	TS 2		
3		2970	90	23	30				11.0	-31.1		452.6		TS 3		
4		1210	92	51	50				11.0	-71.4		412.3		TS 4		
5		0	✓						5.0	-5.0		478.7	π	TS 4 + 1210		
6		550	88	33	40				11.0	+2.8		486.6		TS 5		
7		2310	89	19	10				11.0	+16.5		500.3		TS 6		
8																
9																
10																
11												512.6				
12		0	✓						5.0	+5.0	517.5		Δ	78069 = SP 5		
13		0	✓						5.0				Δ			
14		0	✓						5.0	-5.0		512.6	π	78069 = SP 5		
15		970	91	02	10				11.0	-25.2		492.5	o	5+ 970		
16		✓	268	55	32				11.0				o			
17																
18		2750	88	09	54				11.0	-76.2	416.3		Δ			
19		✓	271	47	41				11.0				Δ			
20		1760	88	53	25				11.0	+23.1		439.4		6		

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STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 3  
 LINE No.(s) U 10 PARTY No. 1173 DATE 10 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippusch 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															
2		770	90	11	55			11.0	-13.7	402.6	7	6+990			
3		0	✓					5.0	-5.0	411.3	7	7			
4		1210	88	21	22			11.0		429.7	0	7+1200			
5		✓	271	36	46			11.0	+23.4		0				
6															
7		1320	90	16	44			11.0	+17.7	457.5	Δ				
8		✓	269	41	24			11.0			Δ				
9		770	89	54	02			11.0	-9.7	447.8		8			
10		0	✓					5.0	-5.0	452.5	7	8+770			
11		990	91	24	02			11.0	-35.2	422.3		9			
12		2750	90	29	02			11.0	-34.8	422.7	0	10			
13		✓	269	29	07			11.0			0				
14															
15		2750	91	17	00			11.0	+73.1	495.9	Δ				
16		✓	268	41	15			11.0			Δ				
17		990	91	33	28			11.0	-37.9	458.0		11			
18		0	✓					5.0	-5.0	490.9	7	11+990			
19		770	88	19	00			11.0	+11.6	507.5		12			
20															

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STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 4  
 LINE No.(s) U10 PARTY No. 1173 DATE 10 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR: R Ippisch 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.	ROD			
1																
2		2530	88	35	50				11.0	+50.3		546.2	0	13		
3	✓	271	22	07					11.0				0			
4																
5		2970	89	23	44				11.0	-14.5	531.8		Δ			
6	✓	270	28	26					11.0				Δ			
7		1210	90	50	25				11.0	-28.7		503.1		14		
8	0	✓							5.0	-5.0		526.8	π	14+1210		
9		550	86	25	55				11.0	+23.2		555.0		15		
10		2310	86	07	20				11.0	+145.3		677.1		16		
11		2860	86	04	47				11.0	+183.9		715.7	0	16+550		
12	✓	273	53	20					11.0				0			
13																
14		880	91	53	55				11.0	+40.3	756.1		Δ			
15	✓	268	04	32					11.0				Δ			
16	0	✓							5.0	-5.0		751.1	π	16+1430		
17		230	88	25	10				11.0	-1.9		754.2		17		
18		1320	89	33	20				11.0	-3.4		752.7	0	17+990		
19	✓	270	18	55					11.0				0			
20																

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## STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE OR PROVINCE Alaska PAGE No. 5  
 LINE No.(s) 1110 PARTY No. 1173 DATE 10 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch 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															
2		1279	89	16	03			11.0	-4.3	748.4		Δ	17+990		
3	✓	270	42	15				11.0				Δ			
4		449	89	00	50			11.0	-3.2	745.1			18		
5	0	✓						5.0	-5.0	743.4		π	18+449 (78097)		
6	0	✓						5.0	-5.0	743.4		0	18+449		
7	0	✓						5.0				0			
8															
9															
10															
11															
12															
13	0	✓						5.0	+5.0	748.4		Δ	18+449		
14	0	✓						5.0				Δ			
15	0	✓						5.0	-5.0	743.4		π	18+449		
16		1311	90	14	00			11.0	-16.7	731.7		0	19		
17	✓	269	44	10				11.0				0			
18															
19		2970	88	37	04			11.0	-60.1	671.6		Δ			
20	✓	271	21	12				11.0				Δ			

78097 = 743.4'  
 +0.4 MISTAKE RAW

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STADIA SURVEY NOTES

AREA - Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 6  
 LINE No.(s) U-10 PARTY No. 1173 DATE 10 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. Ipsich RODMAN K. Barr WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction				INST.	ROD			
1																
2		1210	88	46	36			11.0		+14.9	680.5		20			
3		0	✓					5.0		-5.0	666.6	κ	20+1210			
4		550	89	22	08			11.0		-4.9	666.7		21			
5		2310	89	48	47			11.0		-4.0	667.6	0	22			
6		✓	270	09	22			11.0				0				
7																
8		1578	89	23	26			11.0		-5.8	661.8					
9		✓	270	36	30			11.0				Δ				
10		0	✓					5.0		-5.0	656.8	κ	22+1578			
11		0	✓					5.0			656.8	0				
12		0	✓					5.0				0				
13																
14																
15																
16											656.8					
17		1172	87	14	40			15.0		-40.7	615.6		22+1578			
18		✓	272	41	08			15.0				Δ				
19		990	87	12	07			11.0		+37.3	652.9		23			
20		0	✓					5.0		-5.0	610.6	κ	23+990			

TBM 78096 = 656.8  
 "O.I. DISTIE RAW"

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## STADIA SURVEY NOTES

AREA Itipikuk RIVER STATE or PROVINCE Alaska PAGE No. 7  
 LINE No.(s) U 10 PARTY No. 1173 DATE 11 Day 3 Mo. 78 Yr. BOOK No.   
 SURVEYOR R. Ippisch RODMAN K Barr WEATHER: Clear 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	Correction				INST.	ROD			
1																
2		770	92	48	21			11.0		-47.6	568.0	24	24			
3		2530	93	02	35			11.0		-146.6	469.0	25	25			
4		✓ 266	53	40				11.0		1		0				
5																
6		2310	87	36	30			11.0		-84.3	384.0	Δ				
7		✓ 272	20	00				11.0				Δ				
8		550	88	16	42			11.0		+5.5	389.5	π	26			
9		0	✓					5.0		-5.0	379.0	π	26+550			
10		1210	88	18	20			11.0		+24.8	408.8	0	27			
11		2970	88	28	45			11.0		+68.0	452.0	0	28			
12		3300	88	29	00			11.0		+75.4	459.4	0	28+330			
13		✓ 271	28	32				11.0				0				
14																
15		1100	89	39	00			11.0		+4.6	463.8	Δ				
16		✓ 270	18	38				11.0				Δ				
17		0	✓					5.0		-5.0	458.8	π	28+1430			
18		330	90	01	50			11.0		-11.2	452.6	0	29			
19		1100	90	57	10			11.0		-29.7	434.1	0	29+770			
20		✓ 269	00	20				11.0				0				

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**STADIA SURVEY NOTES**

AREA Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 8  
 LINE No.(s) U 10 PARTY No. 1173 DATE 11 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Barry WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	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				INST.	ROD			
1																
2		2640	89	56	37			11.0		+9.2	442.8		0	29+770		
3		✓ 270	90	55				11.0					Δ			
4		1650	91	40	27			4.0		-52.1		390.7		30		
5		0	✓					5.0		-5.0		437.8	κ	30+1650		
6		110	89	54	40			4.0		-3.8		439.0		31		
7		1870	89	31	36			11.0		+4.5		447.3		32		
8		2210	89	41	36			11.0		+48.4		491.2	0	32+770		
9		✓ 271	16	01				11.0					0			
10																
11		986	91	26	45			15.0		+40.2	531.4		Δ			
12		✓ 268	30	38				15.0					Δ			
13		0	✓					5.0		-5.0		526.4	κ	32+1756 (78095)		
14		0	✓					5.0		-5.0		526.4	0	32+1756		
15		0	✓					5.0					0			
16												78095 = 526.4				
17												-2.1	MISTIE - R AW			
18																
19																
20																

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## STADIA SURVEY NOTES

AREA Tukikpuk RIVER STATE OR PROVINCE Alaska PAGE No. 9  
 LINE No.(s) 1-20 PARTY No. 1178 DATE 11 Day 15 Mo. 72 Yr. BOOK No.   
 SURVEYOR R. Tippel RODMAN K. Boyer 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											526.4				
2		0	✓					5.0	+5.0	531.6		Δ	32+1756 (78095)		
3		0	✓					5.0				Δ			
4		0	✓					5.0	-5.0	526.6		κ	32+1751		
5		4	✓					5.0	-5.0	526.6			33		
6		774	91	08	25			11.0	-26.8	504.8		0	33+730		
7		✓	268	48	10			11.0				0			
8															
9		242	88	40	00			11.0	-44.4	460.5		Δ			
10		✓	271	17	05			11.0				Δ			
11		148	90	21	02			11.0	-19.7	440.8			34		
12		0	✓					5.0	-5.0	455.5		κ	34+1430		
13		320	88	56	05			11.0	-4.9	455.6			35		
14		660	90	20	40			11.0	-15.2	445.3		0	35+1330		
15		✓	263	36	37			11.0				0			
16															
17		1100	87	28	10			11.0	-87.2	408.5		Δ			
18		✓	272	20	07			11.0				Δ			
19		0	✓					5.0	-5.0	403.5		κ	35+1130		
20		330	85	22	40			4.0	-23.4	385.1			35		

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**STADIA SURVEY NOTES**

AREA Ikpikruk River STATE or PROVINCE Alaska PAGE No. 10  
 LINE No.(s) U-10 PARTY No. 1173 DATE 11 Day 8 Mo. 79 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		Abs. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2		1200	92	36	15				-60.9		347.6		36+310		
3		2000	96	15	50				-21.4		387.1	0	37		
4		✓ 269	41		20							0			
5															
6		2530	91	17	30				+68.9	456.2		Δ			
7		✓ 268	39		40							Δ			
8		770	90	41	43				-20.3		435.9		39		
9		0	✓						-5.0		451.2	Δ	38+720		
10		990	85	53	56				+7.8		464.0	0	35		
11	X	✓ 271	04		07							0			
12															
13		770	89	28	17				+4.2	468.3		Δ			
14		✓ 270	29		06							Δ			
15		0	✓						-5.0		463.3	Δ	39+770		
16		660	91	48	17				-32.0		436.3	0	39+1930		
17		✓ 268	09		03							0			
18															
19															
20															

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# STADIA SURVEY NOTES

AREA T. Lepikpik River STATE or PROVINCE Alaska PAGE No. 11  
 LINE No.(s) 12-18 PARTY No. 117 DATE 11 Day 3 Mo. 72 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR A. Tappich 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															
2		2137	87	45	50			11.0	-71.8	364.9		Δ	39+1430		
3	✓	272	12	02				11.0				Δ			
4		1807	88	10	50			11.0	+46.4	411.3			40		
5	47	✓						6.7	-6.7	358.2			41		
6	0	✓						5.0	-5.0	359.9		π	41+47 INTL-03=20+416		
7	416	✓						6.2	-6.2	358.7			20L-0.8		
8		1713	89	08	33			11.0	+14.7	379.6			42		
9		2783	88	47	25			11.0	+45.4	410.3		0	42+990		
10	✓	271	10	25				11.0				0			
11															
12		2530	89	34	47			11.0	-7.0	403.8		Δ			
13	✓	270	23	20				11.0				Δ			
14		1760	89	47	40			12.0	+4.4	408.2			43		
15	0	✓						5.0	-5.0	398.8		π	44		
16		1760	✓					14.9	-14.8	389.0			45		
17		2750	90	13	50			11.0	-22.8	381.0		0	45+990		
18	✓	269	43	55				11.0				0			
19															
20															

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**STADIA SURVEY NOTES**

AREA Tkpitpit RIVER STATE or PROVINCE Alaska PAGE No. 12  
 LINE No.(s) 11-10 PARTY No. 1173 DATE 11 Day 3 Mo. 79 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Tippisch RODMAN K Rove 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																
2		1540	89	37	30				11.0	+1.3	382.6		Δ	45+990		
3		✓ 270	20	25					11.0				Δ			
4		770	89	12	48				11.0	-0.4	382.2			46		
5		0	✓						5.0	-5.0	377.6		π	46+770		
6		990	92	19	30				4.0	-44.5	338.1		o	47		
7		✓ 267	38	15					4.0				o			
8																
9		1760	89	47	05				4.0	-2.1	336.3		Δ			
10		✓ 270	10	30					4.0				Δ			
11		770	92	06	07				1.0	-29.2	307.1			47+990		
12		0	✓						5.0	-5.0	331.3		π	48		
13		1430	88	15	40				11.0	+31.9	368.2		o	48+1430		
14		✓ 271	41	47					11.0				o			
15																
16		1100	90	58	22				11.0	+30.0	398.5		Δ			
17		✓ 268	59	20					11.0				Δ			
18		770	91	14	32				11.0	-27.7	370.8			49		
19		0	✓						5.0	-5.0	393.5		π	49+770		
20		990	88	50	25				11.0	+9.1	407.6			50		

TI-588B

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

### STADIA SURVEY NOTES

AREA Tokpik point River STATE or PROVINCE Alaska PAGE No. 13  
 LINE No.(s) U10 PARTY No. 1173 DATE 11 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Tapusch RODMAN K Baur 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		1532	89	15	25			10.0	+10.1		408.6	0	50+598	(78094)	
3		✓ 270		42	06			10.0				0			
4											78094 = 408.6				
5															
6														-2.8' MISTIE LOW	
7															
8											408.6	TBM	78094		
9		0	✓					5.0	+5.0	413.6		Δ	50+598	(78094)	
10		0	✓					5.0				Δ			
11		0	✓					5.0	-5.0	408.6		κ	78094		
12		1162	90	14	50			11.0	-16.0	397.6			51		
13		2322	90	06	46			11.0	-12.4	396.2		0	52		
14		✓ 269		51	13			11.0				0			
15															
16		2530	89	56	05			11.0	+8.7	404.9		Δ			
17		✓ 270		02	02			11.0				Δ			
18		770	89	25	50			11.0	-3.3	401.6			53		
19		0	✓					5.0	-5.0	399.9		κ	53+770		
20		990	90	37	10			11.0	-21.7	383.2			54		

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STADIA SURVEY NOTES

AREA Ikpikpuk RIVER STATE or PROVINCE Alaska PAGE No. 14  
 LINE No.(s) U 10 PARTY No. 1173 DATE 11 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			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		17.60	90	23	00			11.0		-22.7		382.2		54+77.0		
3		27.50	90	07	22			11.0		-17.6		387.3	0	55		
4		✓	269	50	36			11.0					0			
5																
6		2.590	90	15	26			11.0		+23.0	410.3		Δ			
7		✓	269	42	32			11.0					Δ			
8		770	90	11	00			11.0		-13.5		396.8		56		
9		0	✓					5.0		-5.0		405.3	π	56+770		
10		990	88	39	30			11.0		+12.2		422.5		57		
11		2750	89	04	22			11.0		+32.9		443.2	0	58		
12		✓	270	53	50			11.0					0			
13																
14		2192	89	26	36			11.0		-9.0	434.2		Δ			
15		✓	270	31	33			11.0					Δ			
16		352	88	30	38			11.0		-1.8		432.4		59		
17		0	✓					5.0		-5.0		429.2	π	59+352 (78.093)		
18												429.2	TBM	7893		
19																
20																0.0 MISTIE RAW

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### STADIA SURVEY NOTES

AREA Ikpikook RIVER STATE or PROVINCE Alaska PAGE No. 15  
 LINE No.(s) U to PARTY No. U73 DATE 11 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.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												429.2	78093			
2		0	✓						5.0	+5.0	435.0		Δ	78093	50+852	
3		0	✓						5.0				Δ			
4		0	✓						5.0	-5.0		430.0	π	78093		
5		1408	90	42	50				11.0	-28.5		406.5		60		
6		3168	90	33	05				15.0	-46.2		388.8	0	61		
7		✓	269	25	00				15.0				0			
8																
9		2750	89	23	00				15.0	-13.2	396.3		Δ			
10		✓	270	33	00				15.0				Δ			
11		2420	89	58	40				11.0	-9.9		366.4		61+330		
12		990	90	40	08				11.0	-22.5		353.8		62		
13		880	91	03	00				11.0	-27.1		349.2		62+110		
14		0	✓						5.0	-5.0		371.3	π	62+990		
15		770	88	21	56				11.0	+11.0		387.3		63		
16		2530	88	32	32				11.0	+52.5		428.8	0	64		
17		✓	271	24	47				11.0				0			
18																
19		990	89	59	45				11.0	+11.3	440.8		Δ			
20		✓	269	57	13				11.0				Δ			

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π+990

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STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 16  
 LINE No.(s) U 10 PARTY No. 1173 DATE 12 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch 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		0	✓						5.0	-5.0	435.8	κ	64+990			
3		770	90	10	36				11.0	-13.4	427.4		65			
4		2530	90	20	47				11.0	-27.0	413.8	0	66			
5		✓	269	36	56				11.0			0				
6																
7		2750	89	36	30				11.0	-7.1	407.2		Δ			
8		✓	270	21	21				11.0				Δ			
9		990	90	42	40				11.0	-23.3	383.9		67			
10		0	✓						5.0	-5.0	402.2	κ	67+990			
11		770	88	30	12				11.0	+9.1	416.3		68			
12		1760	89	10	17				11.0	+14.0	421.2	0	68+990			
13		✓	270	42	50				11.0			0				
14																
15		2530	89	13	00				11.0	-23.1	398.5		Δ			
16		✓	270	45	22				11.0	+6			Δ			
17		1760	89	25	45				11.0	+6.6	405.1		69			
18		0	✓						5.0	-5.0	393.5	κ	70			
19		1760	87	54	57				11.0	+52.6	451.1	0	71			
20		✓	272	03	10				11.0			0				

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### STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 17  
 LINE No.(s) U 10 PARTY No. 1173 DATE 12 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch 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.	ROD			
1																
2		2530	91	22	55					11.0	+72.5	523.8		Δ	71	
3		✓	268	35	27					11.0				Δ		
4		770	92	13	52					11.0	-41.0	482.8			72	
5		0	✓							5.0	-5.0	518.8	π		72+770	
6		<del>1898</del>	89	21	57					5.0	+4.8	528.6	0		72+1668 (78092)	
7		✓	270	36	32					5.0			0			
8												528.6	TRM		78092	(SEE PAGE 20
9												-32			MISTIE RAW	(L-20)
10																
11												528.6	TRM		78092	
12		0	✓							5.0	+5.0	533.2		Δ	72+1668 (78092)	
13		0	✓							5.0				Δ		
14		0	✓							5.0	-5.0	528.6	π		72+1668	
15		92	✓							6.2	-6.2	527.0			73	
16		1082	90	13	55					11.0	-15.6	517.6	0		73+990	
17		✓	269	44	30					11.0			0			
18																
19		2200	87	28	03					11.0	-85.7	431.0		Δ		
20		✓	272	30	07					11.0				Δ		

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## STADIA SURVEY NOTES

AREA Ikpikput RIVER STATE or PROVINCE Alaska PAGE No. 18  
 LINE No. (s) U 10 PARTY No. 1173 DATE 12 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch 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	Correction			Center Hair	INST.			
1															
2		1430	87	19	08			11.0	+55.9	486.9			74		
3		660	89	07	30			11.0	-0.9	430.1			74+770		
4		0	✓					5.0	-5.0	426.0			74+1430		
5		330	91	13	53			11.0	-18.1	412.9			75		
6		1540	92	02	40			11.0	-65.9	365.1			75+1210		
7		2090	91	24	50			11.0	-62.5	368.5			76		
8		2420	91	20	00			11.0	-67.7	363.3		0	76+330		
9		✓	268	38	27			11.0				0			
10															
11		1540	90	51	34			11.0	+34.4	397.3			Δ		
12		✓	269	06	53			11.0					Δ		
13		1320	91	57	30			15.0	-60.1	337.7			76+550		
14		110	✓					8.8	-8.8	388.5			77		
15		0	✓					5.0	-5.0	392.3			77+110		
16		880	89	15	50			11.0	+0.1	392.4			77+990		
17		✓	270	42	13			11.0					0		
18															
19		2530	90	12	33			11.0	+20.8	417.3			Δ		
20		✓	269	45	34			11.0					Δ		

TI-588B

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### STADIA SURVEY NOTES

AREA Ikpikpuk RIVER STATE or PROVINCE Alaska PAGE No. 19  
 LINE No.(s) U 10 PARTY No. 1173 DATE 12 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch 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	Correction			Center Hair	INST.			
1															
2		1760	90	51	04			11.0	-37.1		380.2		78		
3		1430	91	25	45			11.0	-46.6		370.7		78+330		
4		0	✓					5.0	-5.0		412.3	π	79		
5		1760	88	18	10			11.0	+41.2		458.5		80		
6		2750	87	59	15			11.0	+84.9		502.2	0	80+990		
7		✓	271	58	44			11.0				0			
8															
9		1540	90	12	45			11.0	+19.3	521.3		Δ			
10		✓	269	40	16			11.0				Δ			
11		370	✓					14.8	-14.8		506.5		81		
12		0	✓					5.0	-5.0		516.3	π	81+770		
13		440	91	18	03			11.0	-21.1		500.2	0	81+1210		
14		✓	268	40	06			11.0				0			
15															
16		3080	89	09	10			11.0	-34.0	416.0		Δ			
17		✓	270	49	10			11.0				Δ			
18		2530	89	46	35			11.0	-1.0		465.0		82		
19		1540	91	51	00			11.0	-60.7		405.2		82+990		
20		770	92	30	02			11.0	-44.6		421.4		83		

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**STADIA SURVEY NOTES**

AREA Ikpikpuk RIVER STATE or PROVINCE Alaska PAGE No. 20  
 LINE No.(s) U 10 PARTY No. 1173 DATE 12 Day 3 Mo. 28 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. Ipsic 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.	ROD			
1																
2		0 ✓							5.0		-5.0	461.0	∇	83+770		
3		660	88	32	15				11.0		+5.7	471.7	○	83+1480		
4		✓	271	25	52				11.0				○			
5																
6		2090	91	06	10				11.0		+51.7	522.4				
7		✓	268	52	00				11.0				Δ			
8		1760	91	27	12				11.0		-55.6	466.8		84		
9		0	✓						5.0		-5.0	517.4	∇	85		
10		1760	90	04	13				11.0		-13.1	509.3		86		
11		2750	90	03	52				11.0		-14.8	507.6	○	86+930		
12		✓	269	54	00				11.0				○			
13																
14		1320	89	29	42				N.O		-0.3	506.5				
15		✓	270	28	30				11.0				Δ			
16		550	88	32	08				11.0		+2.3	508.8		87		
17		0	✓						5.0		-5.0	501.5	∇	87+550		
18		2106	90	39	03				15.0		-39.4	467.1	○	TBM 78091		
19		✓	269	19	04				15.0				○			
20																

TI-588B

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467.1 TBM 78091 (SEE PAGE +4.7 MISTIE ROW (17-LINE 9))  
 2nd

## STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE or PROVINCE Alaska PAGE No. 21  
 LINE No.(s) U-10 PARTY No. 1173 DATE 12 Day 3 Mo. 78 Yr. BOOK No.   
 SURVEYOR R Ippisch RODMAN K Barr WEATHER: Clear P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Fincl. Elev. Diff.	ELEVATIONS		B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1												467.1	TBM	78091		
2		21065	90	39	03			15.0		+39.4	506.5		Δ	TBM	78091	
3		✓ 269	19	04				15.0					Δ			
4		0	✓					5.0		-5.0		501.5	π	87+550		
5		660	93	26	50			11.0		-50.5		457.8	0	87+12.10		
6		✓ 266	31	35				11.0					0			
7																
8		2310	86	12	43			11.0		-14.1	316.7		Δ			
9		✓ 273	45	27				11.0					Δ			
10		1760	87	10	36			11.0		+75.8		392.5		88		
11		0	✓					5.0		-5.0		311.7	π	89		
12		1760	91	23	20			11.0		-54.0		262.7	0	90		
13		✓ 268	35	02				11.0					0			
14																
15		2970	88	30	58			11.0		-65.2	197.5		Δ			
16		✓ 271	26	56				11.0					Δ			
17		82.10	88	24	45			11.0		+22.6		220.1		91		
18		8100	89	55	15			11.0		+0.5		198.0		91+10		
19		0	✓					5.0		-5.0		192.5	π	91+1210		
20		✓ 550	89	09	28			11.0		-2.9		194.6		TS1		

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**STADIA SURVEY NOTES**

AREA Ikpikpuk RIVER STATE or PROVINCE Alaska PAGE No. 22  
 LINE No.(s) U 10 PARTY No. 1173 DATE 12 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. Ippisch RODMAN K. B. ... 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	Correction			Center Hair	INST.			
1															
2		2310	89	42	30			11.0	+0.9		198.4		TS2		
3		3070	89	42	20			15.0	-3.5		194.0	0	TS3		
4															
5		720	95	59	20			15.0	+90.1	284.1		Δ			
6		0	✓					5.0	-5.0		279.1	✓	3+720		
7		710	90	23	30			1.0	-5.8		278.3	0	3+1430		
8															
9		2960	88	51	45			1.0	-55.9	222.3		Δ			
10		2530	88	58	30			4.0	+4.4		263.7		4		
11		770	90	29	55			4.0	-10.7		211.6		5		
12		0	✓					5.0	-5.0		217.3	✓	5+770		
13		990	90	40	50			4.0	-15.7		206.6	0	6	WEST E.O.L.	
14															
15															
16															
17															
18															
19															
20															

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