

STADIA SURVEY NOTES

AREA UMIAT - SHEET B-4 STATE or PROVINCE ALASKA PAGE No. 1  
 LINE No.(s) U-9 PARTY No. 173 DATE 17 Day JAN Mo. 78 Yr. BOOK No.   
 SURVEYOR R. IPPISCH RODMAN K. BARR WEATHER: CLEAR -10° 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.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												273.7				-S.P. 8 - LINE 4-8 REFER L-2 P-2
2	W	1760	89	54	30				5.0	+2.2	+3.3	277.0		Δ		S.P. 8 - CORRECTED 276.26
3			270	00	00				4.5	+4.5				Δ		S.P. 100
4		880	✓						3.6	-3.6		273.4				99
5									5.0	-5.0		272.0		π		98
6		880	✓						4.0	-4.0		273.0				97
7		1760	89	57	27				4.0	-2.7	-3.7	273.3		0		96
8			269	58	48				4.0	-4.6				0		
9		1760	89	14	28				10.5	-12.8	-11.8	261.5		Δ		
10			270	41	35				10.5	-10.8				Δ		
11		1100	89	12	50				5.0	+10.1		271.6				95+330
12		990	89	37	35				6.0	+0.5		263.0				95+110
13		880	89	35	10				10.8	-3.6		257.9				95
14		0							5.0	-5.0		256.5		π		94
15		880	✓						4.0	-4.0		257.5				93
16		1760	89	51	40				6.0	-1.7		259.8				92
17		2530	89	38	05				15.0	+11.1	0.0	261.5		0		91+110
18			270	18	48				15.0	-1.2				0		
19		990	89	24	30				15.0	+4.8	+5.3	266.8		Δ		
20			270	32	10				15.0	+5.7				Δ		

TI-588B

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**STADIA SURVEY NOTES**

AREA Umiat STATE or PROVINCE Alaska PAGE No. 2  
 LINE No.(s) U-9 PARTY No. 1173 DATE 17 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. Ippisch RODMAN K Barr WEATHER: Clear -10 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		880	89	24	31				15.0	-5.9		260.9		91		
2		0							5.0	-5.0		261.8	+	90		
3		886	89	16	43				15.0	-3.9	-4.3	262.5	0	89		
4			270	40	10				15.0	-4.7			0			
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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## STADIA SURVEY NOTES

AREA UMIAT STATE or PROVINCE ALASKA PAGE No. 2A  
 LINE No.(s) 4-9 RETURN PARTY No. 1173 DATE 13 Day MAY Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. W. H. S. L. H. RODMAN A. KENDLETON WEATHER: FAIR 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		990	90	00	55				15.0	+15.2	368.0			Δ	86+660		
3		✓	269	59	10				15.0					Δ			
4		0	✓						5.0			363.0		κ	85+550		
5		550	✓						6.7	-6.6		361.4		0	85		
6		✓	✓						6.6					0			
7																	
8		880	86	52	45				15.0	-32.9	328.4			Δ			
9		✓	233	06	55				15.0					Δ			
10		0	✓						5.0			323.4		κ	84		
11		1760	88	59	25				5.0	+28.6		359.0		0	82		
12		✓	271	05	20				5.0					0			
13																	
14		1760	90	13	50				15.0	+22.1	378.9			Δ			
15		✓	263	46	00				15.0					Δ			
16		0	✓						5.0			373.9		κ	80		
17		1650	84	51	05				10.0	+138.1		517.0		0	78+110		
18		✓	275	08	50				10.0					0			
19																	
20																	

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## STADIA SURVEY NOTES

AREA Unimut STATE or PROVINCE Alaska PAGE No. 3  
 LINE No.(s) U-9 PARTY No. 1173 DATE 18 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. Tappisch RODMAN R. Barr WEATHER: Fog 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		4547.8	89	24	20						-37.2						TRI-STATION SOUTH (559.0)
3			270	33	08												RE-RUN
4	0	550	90	49	56						-5.0	537.7	532.7				65+550 REFER L-4 P-5
5		550	90	49	55						-17.0		520.7				65
6		1450	89	59	52						-8.9		528.8				64
7		2310	89	52	42						-4.9		532.8	0			63
8			270	04	50									0			
9		1210	91	03	05						+31.7	564.5					
10			268	54	10												
11		330	91	24	34						-17.1		547.4				TS 1
12		0									-5.0		559.5				TS 1 + 330
13		550	91	06	20						-19.6		544.9				TS 2
14		1450	90	59	09						-33.6		530.9	0			TS 3
15		2750	89	48	30						-3.2	527.7					
16		1870	90	05	32						-9.0		518.7				TS 4
17		990	91	37	04						-37.0		490.7				TS 5
18		110	92	49	05						-14.4		513.3				TS 6
19		0									-5.0		522.7				TS 6 + 116'
20		270	91	01	35						-22.8		504.9				TS 7

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## STADIA SURVEY NOTES

AREA UMIAT STATE or PROVINCE ANASRA PAGE No. 3A  
 LINE No.(s) 4-9 - RETURN PARTY No. 1173 DATE 13 Day MAY Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. APPSIA RODMAN A. PENDLETON WEATHER: FAIR 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		660	90	50	40			15.0	+24.7	541.8		Δ	78+110		
3		✓ 269	09	00				15.0				Δ			
4		0 ✓						5.0			536.8	⊗	77+830		
5		880	89	59	30			15.0	-14.9		526.9	○	76+330		
6		✓ 270	00	25				15.0				○			
7															
8		660	86	37	35			10.0	-28.9	497.9		Δ			
9		✓ 273	22	30				10.0				Δ			
10		0 ✓						5.0			492.4	⊗	75+550		
11		2310	89	08	25			5.0	+29.8		527.7	○	73		
12		✓ 270	51	45				5.0				○			
13															
14		330	90	03	30			15.0	+15.3	543.0		Δ			
15		✓ 269	56	10				15.0				Δ			
16		0 ✓						5.0			538.0	⊗	72+550		
17		2640	90	05	40			15.0	-19.3		523.7	○	69+550		
18		✓ 269	54	10				15.0				○			
19															
20															

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## STADIA SURVEY NOTES

AREA Umiat STATE or PROVINCE Alaska PAGE No. 4  
 LINE No.(s) U-9 PARTY No. 1173 DATE 18 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K. Barr WEATHER: Fog 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		1650	90	19	00				8.0		-21.1		506.6		TS 8	
2		2530	89	51	24				9.6		-2.7		525.0	0	TS 9	
3		2640	90	10	53				9.0		+17.4	542.4		A		
4		1760	91	07	40				9.0		-43.6		498.8		TS 10	
5		880	91	35	33				9.0		-33.5		508.9		TS 11	
6		0	✓						5.0		-5.0		537.4	✓	TS 12	
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA UMIAT STATE or PROVINCE ALASKA PAGE No. 4A  
 LINE No.(s) U-9 - PERUN PARTY No. 1173 DATE 13 Day MAY Mo. 78 Yr. BOOK No.  
 SURVEYOR R. IPPISCH RODMAN A. HEDLETON WEATHER: FAIR 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	30	15			5.0	-15.1	508.6		Δ	69+550		
3		✓ 270	29	40				5.0				Δ			
4		2177	89	37	20			5.0	+9.5				1017	73% US = 69+417	
5		0	✓					5.0	-5.0			κ	67		
6		2200	89	29	10			5.0	+14.6		523.1	○	SP 117	L- 73%	
7		✓ 270	30	10				5.0				○			
8															
9													+0.9	MISTLE RAW	
10															
11											5231				
12		2200	89	29	10			5.0	-14.6	508.6		Δ	SP 117	L- 73%	
13		✓ 270	30	10				5.0				Δ			
14		0	✓					5.0	-5.0		508.6	κ	67		
15		1210	89	11	35			5.0	+12.1		520.6	○	65+550		
16		✓ 270	48	25				5.0				○			
17															
18		2310	✓					6.4	+1.3	526.9		Δ			
19		✓	✓					6.5				Δ			
20		0	✓					5.0	-5.0		521.9	κ	63		

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### STADIA SURVEY NOTES

AREA Umiaut STATE or PROVINCE Alaska PAGE No. 5  
 LINE No.(s) U-9 PARTY No. 1173 DATE 18 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Tippisch RODMAN K Barr WEATHER: Fog 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															
3															
4											532.7				
5		1520	88	48	08			9.0	-22.8	-22.8	510.9		Δ	65+530	
6		✓	271	09	09			9.0	-21.1				Δ		
7		1190	88	52	20			9.0	+14.4		524.9			66	
8		310	88	33	10			4.0	+3.8		514.3			67	
9		0	✓					5.0	-5.0		505.5	π		67+310	
10		570	97	09	18			9.0	-80.1		430.4			68	
11		680	96	07	40			9.0	-81.7		428.8			68+110	
12		1450	90	19	10			9.0	-17.1		493.4			69	
13		2000	88	59	43			9.0	+26.1	+25.3	535.8	0		69+550	
14		✓	270	57	45			9.0	+24.6			0			
15		2530	90	10	55			9.0	+17.0	+18.0	553.8		Δ		
16		✓	269	46	35			9.0	+18.9				Δ		
17		2200	90	2.8	10			9.0	-27.0		526.8			70	
18		1320	90	41	40			9.0	-25.0		528.8			71	
19		440	90	04	22			9.0	-9.6		544.2			72	
20		0	✓					5.0	-5.0		548.8	π		72+440	

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NOTES  
 WORKED  
 BACKWARD  
 FROM  
 S.P. 89  
 TO  
 S.P. 65 + 50

TI-588B

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### STADIA SURVEY NOTES

AREA Umiaat STATE or PROVINCE Alaska PAGE No. 6  
 LINE No.(s) 129 PARTY No. 1173 DATE 18 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Lippisch RODMAN K Bart WEATHER: Fog 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												553.8			
2		440	91	02	00				9.0	-16.9	-17.1		536.7	0	73
3		✓ 268	55	18					9.0	-17.3				0	
4		2310	89	00	12				9.0	-31.2	-30.3	506.4		Δ	
5		✓ 270	57	02					9.0	-29.3				Δ	
6		1430	93	33	12				9.0		-97.6		408.8		74
7		1100	96	34	58				9.0		-135.3		371.1		74+330
8		550	96	08	18				9.0		-67.9		438.5		75
9		0	✓						5.0		-5.0		501.4	π	75+550
10		330	85	34	24				9.0		+16.5		522.9		76
11		660	86	51	06				9.0	+27.3	+27.0		533.4	0	76+330
12		✓ 273	06	06					9.0	+26.7				0	
13		880	90	04	42				9.0	+10.2	+10.6	544.0		Δ	
14		✓ 269	52	16					9.0	+10.0				Δ	
15		330	88	59	50				9.0		-3.2		540.8		77
16		0	✓						5.0		-5.0		539.0	π	77+330
17		550	91	12	12				9.0		-20.6		523.4		78
18		660	91	15	45				9.0	-23.5	-23.9		520.1	0	78+110
19		✓ 268	40	55					9.0	-24.2				0	
20															

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NOTES  
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BACKWARD  
FROM  
SP 89

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**STADIA SURVEY NOTES**

AREA Umiat STATE or PROVINCE Alaska PAGE No. 7  
 LINE No.(s) 11-9 PARTY No. 1173 DATE 18 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Tippich RODMAN K Barr WEATHER: Fog 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													520.1			
2		1650	84	49	09			9.0	+14.1	-139.8	380.3			Δ	78+10	
3		✓ 275	09	19				9.0	-139.4					Δ		
4		880	85	29	40			9.0		+60.2		440.5			79	
5		0	✓					5.0		-5.0		375.3		∩	80	
6		880	90	23	53			9.0		-15.1		365.2			81	
7		1760	90	19	02			9.0	+18.7	-19.4		360.9		0	82	
8		✓ 269	38	20				9.0	-20.1					0		
9		1760	88	40	27			9.0	+31.8	-31.0	329.9			Δ		
10		✓ 271	16	30				9.0	-30.2					Δ		
11		880	89	24	34			9.0		+0.1		330.0			83	
12		550	92	49	38			9.0		-36.1		293.8			83+330	
13		0	✓					5.0		-5.0		324.9		∩	84	
14		880	87	07	37			10.0	+34.1	+33.7		363.6		0	85	
15		✓ 272	49	21				10.0	+33.3					0		
16		1546	89	32	18			8.7	-3.7	-3.0	360.6			Δ		
17		✓ 270	24	30				8.7	-2.3					Δ		
18		990	89	12	30			9.0		+4.7		365.3			85+550	
19		660	90	03	10			9.0		-9.6		351.0			86	
20		330	92	57	20			9.0		-26.0		334.6			86+330	

↑  
 NOTES  
 WORKED  
 BACKWARD  
 FROM  
 S.P. 89

TI-598B

WORKED BY \_\_\_\_\_

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

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

**STADIA SURVEY NOTES**

AREA Umiat STATE or PROVINCE Alaska PAGE No. 8  
 LINE No.(s) U-9 PARTY No. 1173 DATE 18 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K. Barr WEATHER: Fog 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		0	✓					5.0		-5.0		355.6	κ	86+660		
2														87	↑	
3		440	104	06	30			9.0		-117.0		243.6		87+220'		
4		1100	94	49	15			9.0		-100.9		259.7		88	NOTES WORKED BACKWARD FROM S.P. 89	
5		1980	92	32	46			9.0	-97.0	-98.1		262.5	0	89		
6		✓	267	23	15			9.0	-99.3				0			
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

TAKE OFF SP 89 = 262.5 REFER L-3 P-2

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STADIA SURVEY NOTES

AREA Umia STATE or PROVINCE Alaska PAGE No. 9  
 LINE No.(s) U-9 PARTY No. 1173 DATE 20 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Bass WEATHER: Fog 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	Correction	Center Hair			INST.	ROD			
1		1760	89	49	52				9.0	+3.8	+4.7	278.4	123.7	Δ	100	274.86
2			278	06	32				9.0	+5.7			284.1	Δ		
3		880	89	45	20				9.6	-5.2			273.2		101	
4		0							5.0	-5.0			273.4	π	102	
5		880	89	36	55				9.0	-3.1			275.3		103	
6		1760	89	41	53				9.0	+0.3			278.7		104	
7		2440	89	44	25				9.0	+3.0	+2.2		280.6	0	105	
8			270	13	35				9.0	+1.4				0		
9		2970	90	08	45				9.0	+16.6	+17.3	297.9		Δ		
10			269	49	33				9.0	+18.0				Δ		
11		2090	90	15	20				9.0	-18.3			279.6		106	
12		1210	90	20	51				9.0	-16.3			281.6		107	
13		330	90	42	40				9.0	-13.1			284.8		108	
14		0							5.0	-5.0			292.9		108.330'	
15		550	90	28	36				9.0	-13.6			284.3		109	
16		1430	90	04	44				9.0	-11.0			286.97		110	
17		2310	90	01	04				9.0	-9.7	-10.3		287.6	0	111	
18			269	57	10				9.0	-10.9				0		
19		2640	90	02	38				9.0	+11.0	+11.7	299.3		Δ		
20			269	55	43				9.0	+12.3				Δ		

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## STADIA SURVEY NOTES

AREA Umiat STATE or PROVINCE Alaska PAGE No. 10  
 LINE No.(s) U9 PARTY No. 173 DATE 19 Day 19 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. Lippisch RODMAN K Barr WEATHER: Haze 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		<u>?</u>													
2		<u>1760</u>	<u>89</u>	<u>56</u>	<u>20</u>			<u>9.0</u>	<u>-7.1</u>			<u>292.2</u>		<u>112</u>	
3		<u>880</u>	<u>89</u>	<u>35</u>	<u>50</u>			<u>9.0</u>	<u>-2.8</u>			<u>296.5</u>		<u>113</u>	
4		<u>0</u>						<u>5.0</u>	<u>-5.0</u>			<u>294.34</u>	<u>X</u>	<u>114</u>	
5		<u>880</u>	<u>89</u>	<u>40</u>	<u>58</u>			<u>9.0</u>	<u>-4.1</u>			<u>295.2</u>		<u>115</u>	
6		<u>1760</u>	<u>89</u>	<u>42</u>	<u>38</u>			<u>9.0</u>	<u>-0.1</u>			<u>299.2</u>		<u>116</u>	
7		<u>2640</u>	<u>89</u>	<u>42</u>	<u>37</u>			<u>9.0</u>	<u>+4.3</u>	<u>+3.7</u>		<u>303.0</u>	<u>0</u>	<u>117</u>	
8			<u>270</u>	<u>15</u>	<u>48</u>			<u>9.0</u>	<u>+3.1</u>				<u>0</u>		
9		<u>1870</u>	<u>91</u>	<u>16</u>	<u>53</u>			<u>9.0</u>	<u>+50.8</u>	<u>+51.3</u>	<u>354.3</u>		<u>Δ</u>		
10			<u>268</u>	<u>41</u>	<u>20</u>			<u>9.0</u>	<u>+21.8</u>				<u>Δ</u>		
11		<u>990</u>	<u>91</u>	<u>29</u>	<u>19</u>			<u>9.0</u>	<u>-34.7</u>			<u>312.6</u>		<u>118</u>	
12		<u>110</u>	<u>91</u>	<u>09</u>	<u>20</u>			<u>9.0</u>	<u>-2.2</u>			<u>352.1</u>		<u>119</u>	<u>* 343.3</u>
13		<u>0</u>						<u>5.0</u>	<u>-5.0</u>			<u>349.5</u>	<u>π</u>	<u>119+110'</u>	
14		<u>770</u>	<u>88</u>	<u>49</u>	<u>20</u>			<u>9.0</u>	<u>+6.8</u>			<u>361.1</u>		<u>120</u>	
15		<u>1650</u>	<u>87</u>	<u>05</u>	<u>55</u>			<u>9.0</u>	<u>+74.5</u>			<u>428.8</u>		<u>121</u>	
16		<u>2530</u>	<u>87</u>	<u>18</u>	<u>40</u>			<u>2.0</u>	<u>+116.7</u>	<u>+116.0</u>		<u>470.3</u>	<u>0</u>	<u>122</u>	
17		<u>2530</u>	<u>278</u>	<u>39</u>	<u>25</u>			<u>2.0</u>	<u>+115.3</u>				<u>0</u>		
18		<u>1760</u>	<u>91</u>	<u>14</u>	<u>05</u>			<u>15.0</u>	<u>+52.9</u>	<u>+53.2</u>	<u>523.5</u>		<u>Δ</u>		
19			<u>268</u>	<u>44</u>	<u>53</u>			<u>15.0</u>	<u>+53.5</u>				<u>Δ</u>		
20		<u>880</u>	<u>91</u>	<u>04</u>	<u>35</u>			<u>10.0</u>	<u>-26.5</u>			<u>497.0</u>		<u>123</u>	

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## STADIA SURVEY NOTES

AREA Umiat STATE or PROVINCE Alaska PAGE No. 11  
 LINE No.(s) U-9 PARTY No. 1173 DATE 19 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. Ippisch RODMAN K. Barr WEATHER: Fog 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		0							5.0	-5.0		518.5	π	124		
3		880	89	34	10				5.0	+1.6		525.1		125		
4		1210	89	32	06				15.0	-5.1	-5.6	517.9	0	125+330		
5		✓ 270	25	32					15.0	-6.0			0			
6		2310	88	24	15				9.0	-55.3	-53.9	461.0				
7		✓ 271	31	37					9.0	-52.6			A			
8		1760	88	36	53				9.0	+34.1		498.1		126		
9		880	89	02	43				9.0	+5.7		469.7		127		
10		0							5.0	-5.0		459.0	π	128		
11		880	89	3.3	05				9.0	-2.1		461.9		129		
12		1760	89	10	45				9.0	+16.2		480.2		130		
13		2640	88	90	28				9.0	+59.8	+58.8	522.8	0	131		
14		✓ 271	27	05					9.0	+57.9			0			
15		880	92	47	30				9.0	+51.9	+52.1	574.9				
16		✓ 267	10	22					9.0	52.4			Δ			
17		0							5.0	5.0		569.9	π	132		
18		880	91	18	51				9.0	-29.2	-29.4	545.5	0	133		
19		✓ 268	39	22					9.0	-29.6			0			
20																

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## STADIA SURVEY NOTES

AREA Umirat STATE or PROVINCE Alaska PAGE No. 12  
 LINE No.(s) 1-9 PARTY No. 1173 DATE 21 Day 1 Mo. 7A Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. Ipsich RODMAN K. Barr WEATHER: Wind, Snow 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		2900	89	27	48				9.0	-18.2	-17.6	527.9		Δ	133	
3			070	30	50				9.0	-17.0				Δ		
4		2020	90	31	42				9.0	-27.6		500.3			134	
5		1140	91	05	43				9.0	-30.8		497.1			135	
6		260	✓						9.7	-9.7		518.2 <sup>5</sup>			136	
7		0							5.0	-5.0		522.9	π		136+260	
8		620	91	05	25				9.0	-20.8		507.1			137	
9		1500	90	04	32				9.0	-11.0		516.9			138	
10		2380	89	37	41				9.0	+6.5	+6.0	533.9	0		139	
11			270	20	55				9.0	+5.5			0			
12		2090	93	16	12				9.0	+28.3	+128.7	662.6		Δ		
13			266	42	28				9.0	+129.1				Δ		
14		1210	93	26	44				9.0	-81.8		580.8 <sup>1</sup>			140	
15		330	93	03	30				9.0	-26.6		636.0			141	
16		0							5.0	-5.0		657.6	π		141+380	
17		550	88	52	12				9.0	+1.8		664.4			142	
18		1430	87	49	40				9.0	+45.2		707.8 <sup>1</sup>			143	
19		2310	85	50	00				9.0	+159.0	+158.4	821.0	0		144	
20			274	08	18				9.6	+157.8			0			

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STADIA SURVEY NOTES

AREA Umia STATE or PROVINCE Alaska PAGE No. 13  
 LINE No.(s) U-9 PARTY No. 1173 DATE 21 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Barr WEATHER: Wind, snow P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1																
2		867	93	04	55			15.0	+61.1	+61.3	882.3		Δ	144		
3			266	53	38			15.0	+61.5				Δ			
4		0	✓					5.0		-5.0		877.3	Δ	144+857	SERBEE	
5												877.0	Δ		SEA BEE TARE	
6												+0.3	Δ		MISTIE	
7												877.0	Δ		SEA BEE	
8		0	✓					5.0		+5.0	882.0		Δ		SEA BEE	
9		0	✓					5.0					Δ			
10		0	✓					5.0		-5.0		877.0	Δ		144+857	
11		23	✓					7.0		-7.0		875.0	Δ		845	
12		353	291	10	10			9.0	-16.2	-16.3		865.7	Δ		145+330	
13		-	268	48	31			9.0	-16.3				Δ			
14		1100	83	15	58			15.0	-114.2	-114.0	751.7		Δ			
15		-	276	42	44			15.0	+61.8				Δ			
16		550	83	13	40			9.0		+55.9		807.6	Δ		46	
17		0	✓					5.0		-5.0		746.7	Δ		46+550	
18		330	97	11	47			9.0	-50.4	-50.5		701.2	Δ		47	
19		✓	262	46	46			9.0	-50.6				Δ			
20																

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### STADIA SURVEY NOTES

AREA Umiat STATE or PROVINCE Alaska PAGE No. 14  
 LINE No.(s) U-9 PARTY No. 1173 DATE 23 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Barr WEATHER: 20mph wind -20° P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲ B.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1																	
2		1760	83	42	52			9.0	-184.0	-183.7	517.5		701.2	Δ	147		
3		✓ 276	15	52				9.0	-183.3					Δ			
4		880	86	11	15			9.0		+49.5		567.0			148		
5		80	✓					5.0		-5.0		512.5		κ	149		
6		880	86	14	10			7.0		+50.8		568.3			150		
7		1760	85	36	10			9.0		+126.0		643.5			151		
8		2640	84	26	40			9.0	+246.9	+246.3		763.8		○	152	84	
9		✓ 275	21	53				9.0	245.8					○			
10		1760	92	51	05			15.0	+102.6	+102.9	866.7			Δ			
11		✓ 267	07	46				15.0	+103.2					Δ			
12		880	92	38	00			9.0		-49.4		817.3			153		
13		0	✓					5.0		-5.0		861.7		κ	154		
14		880	88	16	45			9.0		+17.4		884.1			155		
15		1430	88	35	10			4.0	+20.3	+19.9		886.6		○	153753°		
16		✓ 271	23	10				15.0	+19.6					○			
17		660	87	30	40			9.0	-19.7	-19.5	867.1			Δ			
18		✓ 272	27	44				9.0	-19.4					Δ			
19		330	86	33	29			9.0		+10.8		877.9			156		
20		0	✓					5.0		-5.0		862.1		κ	156+330		

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## STADIA SURVEY NOTES

AREA Umiat STATE Alaska PAGE No. 15  
 LINE No. U-9 PARTY No. 1173 DATE Day 23 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Barr WEATHER -20 wind P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hoir Read	Reading	Correction	Center Hair			INST.	ROD		
												867.1			
		550	92	57	31			9.0			-37.4	829.7		157	
		<del>1430</del>	93	21	08			9.0		-32.7	+93.0	774.1	○	158	
			266	37	23			9.0		-33.3			○		
	2090	<del>1210</del>	89	35	07			9.0		+6.2	+55.8	768.3	Δ		
			270	23	43			9.0		+5.2			Δ		
		1210	91	15	25			15.0			-41.5	726.8		159	
		330	91	03	28			9.0			-15.1	753.2		160	
		0	✓					5.0			-5.0	763.3	⊥	160+330	
		550	90	10	06			9.0			-10.6	757.7		161	
	880	<del>1430</del>	91	10	06			9.0		-26.9	+27.1	741.2	○	161+330	
			268	48	38			9.0		-27.3			○		
		2310	90	33	58			9.0		+31.8	+32.2	773.4	Δ		
		✓	269	24	55			9.0		+32.6			Δ		
		1760	93	25	00			9.0			-113.9	659.5		162	
		1430	94	54	30			9.0			-131.5	641.9		162+330	
		880	94	51	35			9.0			-83.6	689.8		163	
		0	✓					5.0			-5.0	769.4	⊥	164	
		880	86	15	29			9.0			+48.5	821.9		165	

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STADIA SURVEY NOTES

AREA Umiat STATE Alaska PAGE No. 16  
 LINE No. U-9 PARTY No. 1173 DATE Day 24 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R. Ippisch RODMAN K. BARR WEATHER 0° snow P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hoir Read	Reading	Correction	Center Hoir			INST.	ROD		
												773.4			
		990	86	27	36			9.0	+52.27	51.9		828.3	○	65110	
		<del>273</del>	<del>30</del>	<del>49</del>				9.0	+51.7				○		
	E	1320	<del>275</del>	<del>30</del>	<del>49</del>	90° 46'	16"	9.0	+26.87	+27.7	853.0		▲		
		<del>269</del>	12	24				9.0	+27.3				▲		
		550	90	01	50			9.0		-9.3		843.7		166	
		0						9.0		-5.0		848.0	π	166.550	
	W	330	89	24	35			9.0		-5.6		847.4		167	
		660	90	28	22			9.0	+14.4	-14.4		838.6	○	167.330	
		<del>269</del>	32	12				9.0	+14.3				○		
	E 1100	<del>1430</del>	85	28	44			9.0	+22.87	+26.9	761.7		▲		
		<del>274</del>	26	02				9.0	+20.1				▲		
		550	84	50	42			9.0		+40.5		802.2		168	
		0						5.0		-5.0		756.7	π	168.550	
	W	330	98	35	52			9.0		-58.5		703.2		169	
		1210	97	38	48			9.0		-170.4		591.3		170	
		1320	97	39	20			1.0		-177.2		584.5		170+110	
		<del>2200</del>	91	18	40			9.0		-59.3		702.4		171	
	2420	<del>2330</del>	91	04	53			9.0	+24.7	+55.8		705.9	○	171.330	
		<del>268</del>	51	50				9.0	+39.0				○		

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## STADIA SURVEY NOTES

AREA Umia STATE Alaska PAGE No. 17  
 LINE No. U-9 PARTY No. 1173 DATE Day 24 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R. Ippisch RODMAN K. Barr WEATHER 0° snow P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	
		Stadia Distance	Level	Inclined	Angle or Factor	Hoir Read	Reading			Correction	Center Hair			INST.
		1430	86	02	42			9.0	-89.77	-89.0	616.9	705.9	Δ	71+330
		✓ 273		54	01			9.0	-88.3)				Δ	
		880	86	47	57			9.0		+40.2		657.1		172
		0	✓					5.0		-5.0		611.9	π	173
		770	92	37	30			9.0		-44.3		572.6		173+170
		880	91	40	44			9.0		+34.8		582.1		174
		1760	86	54	53			9.0		+85.7		702.6		175
		2640	86	45	48			9.0	+140.1)	+139.1		756.0	○	176
		✓ 273		11	40			9.0	+138.2)			772.9	○	
		1760	90	29	59			15.0	+30.4)	+30.9	786.9		Δ	
		✓ 269		27	42			15.0	+31.5)				Δ	
		880	90	09	24			9.0		-11.4		775.5		177
		0	✓					5.0		-5.0		781.9	π	178
		880	89	41	10			9.0		-4.2		782.7		179
		1760	90	01	25			15.0	-15.7)	-16.3		770.6	○	180
		✓ 269		56	19			15.0	-16.9)			777.5	○	
		2640	89	05	46			15.0	-26.6)	-25.8	744.8		Δ	
		✓ 270		52	01			15.0	-24.9)				Δ	
		1760	89	23	02			9.0		+9.9		754.7		181

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STADIA SURVEY NOTES

AREA Umiat STATE Alaska PAGE No. 18  
 LINE No. U9 PARTY No. 1173 DATE 12/4/78 Day 24 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R. Tippisch RODMAN K Barr WEATHER Snow P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hoir Read	Reading	Correction			Center Hair	INST.		
										744.8				
		880	89	64	34			9.0		+5.2	750.0	▲	182	
		0						5.0		-5.0	739.8	○	183	
		880	88	40	36			9.0		+11.3	756.1	○	184	
		1760	90	07	52			9.0	-13.07	-13.8	731.0	○	185	
		✓ 269	49	03				9.0	-14.6			○		
		1050	88	21	04			9.0	-21.27	-20.5	710.5	▲		
		✓ 271	34	20				9.0	-19.87			▲		
		170	88	37	01			2.0		-4.9	705.6	▲	186	
		0						5.0		-5.0	705.5	○	186+170	
		710	93	36	56			9.0	-53.84	-54.0	656.5	○	187	
		✓ 266	20	52				9.0	-54.31			○		
		✓ 1530	88	43	50			9.0	-24.9	-24.2	632.3	▲		
		✓ 271	13	15				9.0	-23.6		409.7	▲		
		1200	90	17	00			9.0	-14.9		617.4	○	187+230	
		0						5.0		-5.0	627.3	○	187+1530	
		230	93	06	10			9.0	-21.5	-21.5	610.8	○	188	
		266	51	24				9.0	-21.6			○		
		1760	91	02	65			9.0	+40.8	+41.3	652.1	▲		
		268	55	48				9.0	+41.9			▲		

WORKED BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_ 2nd

## STADIA SURVEY NOTES

AREA Umiat STATE Alaska PAGE No. 19  
 LINE No. U9 PARTY No. 1173 DATE Day 25 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Barr WEATHER \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Incl. Elev. Diff.	ELEVATIONS		BS FS - SS	Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hoir Read	Reading	Correction	Center Hoir			INST.	ROD			
		1430	23	07	01			9.0				652.1				
		0						5.0					565.3		88+330	
		1760	88	24	21			15	+34.07	+33.4			647.1	π	189	
		✓ 271	33	18				15	+32.87				685.5	0	190	
		1760	89	30	49			15.0	+0.1	+0.7		686.2		Δ		
		✓ 270	28	50				15.0	+1.3					Δ		
	990	0						5.0		-5.0			681.2	π	191	
12+0	990	1400	80	40	02			15.0	-26.57	-26.9			659.3	0	191+500	990
	✓	269	17	38				15.0	-27.2					0		
	2530	2530	89	43	20			15.0	+2.77	+3.5		662.8		Δ		
	✓	210	14	20				15.0	+4.4					Δ		
	1760	1760	90	32	18			9.0		-26.5			637.3		192	
	0							5.0		-5.0				π	193	
	1760	1760	88	49	09			9.0	+27.37	+26.7			689.5	0		
	✓	271	08	34				9.0	+26.17					0	194	
12+0	<del>1130</del>	89	42	42				9.0	+1.87	+2.3		691.8		Δ		
	1430	270	14	51				9.0	+2.87					Δ		
	0							5.0		-5.0				π	194+1420	
	530	300	91	53	35			9.0		-27.2			664.6	0	195	

WORKED BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_

2nd

## STADIA SURVEY NOTES

AREA Umiaut STATE Alaska PAGE No. 20  
 LINE No. U-9 PARTY No. 1173 DATE Day 25 Mo 1 Yr 78 BOOK No.  
 SURVEYOR R Topisch RODMAN K Barr WEATHER \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hoir Read.	Reading	Correction			Center Hoir	INST.		
		27.50	90	43	38			9.0	+43.9	+44.8	709.4	664.6	Δ 195	
		✓ 269	14	02				9.0	+45.8				Δ	
		990	91	53	25			9.0		-41.7		667.7	196	
		0	✓					550		+50		704.4	π 96990	
		770	89	15	32			9.0		+1.0		710.4	197	
		2530	89	27	38			9.0	+14.8	+13.9		723.3	○ 198	
		✓ 270	29	50				9.0	+13.0				○	
		1397	90	11	14			9.0	+13.6	+14.0	737.3		Δ 198	
		✓ 269	46	26				9.0	+14.5				Δ	
		0	✓					50		-5.0		732.3	π 198 + 1397	TRM 78041
												703.3	FBM 78041	
												-1.0	MISTIE	38198 + 1397

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## STADIA SURVEY NOTES

AREA Uniat STATE Alaska PAGE No. 21  
 LINE No. U-9 PARTY No. 1173 DATE Day 26 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R. Ippisch RODMAN K. Barr WEATHER Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD		
		2123	89	44	34			9.2			+0.1	733.4	733.31	70041	
		<del>1760</del> 270	13	15				9.0						Δ	190+1397
		1760	89	42	20			9.0			0.0		733.4		199
		0						5.0			-5.0		728.4	π	200
		1760	90	01	38			9.0			-10.6		722.8	○	201
		269	55	28				9.0						○	
		1760	90	27	45			9.0		+23.8		746.6		Δ	
		269	29	46				9.0						Δ	
	1260	90	53	10				9.0		-27.7		718.9	π	201+550	+550
	0	<del>1260</del>						5.0		-5.0		741.6	π	202+1216	202+1216
		1260	90	07	57			15.0		-17.9		728.7	○	202+1216	
		269	51	22				15.0						○	
		1540	89	38	38			1.0		-11.6		717.15		Δ	
		276	27	02				1.0		-30.8		686.4		Δ	
		990	90	16	02			9.0		-11.9		705.2			203
		440	92	41	36			9.0		-30.3		686.8			203+50
		0						5.0		-5.0		712.1	π	203+50	
		770	88	46	09			9.0		+7.5		724.6			204

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203+99



AREA Ikpikpuk RIVER STATE Alaska PAGE No. 22  
 LINE No. U-9 PARTY No. 1173 DATE Day 26 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R. Ippisch RODMAN K. Barr WEATHER Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	
			Level	Inclined	Angle or Factor	Hoir Read	Reading	Correction	Center Hoir			INST.	ROD			▲ BS ○ FS - SS
		2530	89	08	48			9.0			+277		744.8	○	205	
		✓ 270	48	25				9.0						○		
		868	89	41	26			9.0			+46	749.4	Δ			
		✓ 770	16	22				9.0						Δ		
		0						5.0			-5.0	744.4	π	205.868		
												743.24		787	780.99	
												+1.2		MISTAKE		
		0	✓					5.0			+5.0	743.24		780.49		
		0	✓					5.0			+5.0	748.2	Δ	205 + 808		
		0	✓					5.0			-5.0		Δ			
		102	✓					5.0			-5.0	743.2	π	205 + 868		
		892	94	40	40			15.0			-87.8	660.4		206		
		1002	94	46	15			15.0			-98.4	649.8		206 + 110		
		166	91	33	33			9.0			-54.9	693.3	○	206 + 770		
		✓ 268	23	57				9.0					○			
		1760	91	20	41			9.0			+50.9	744.2	Δ			
		✓ 268	36	55				9.0					Δ			

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## STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE Alaska PAGE No. 23  
 LINE No. U-9 PARTY No. 1173 DATE Day 26 Mo 1 Yr 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Barr WEATHER Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS				
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD		BS	FS	- SS		
		770	90	58	12			9.0			-22.0	722.2	*	207					
		0						5.0			-5.0	739.2	π	207+770					
		990	89	06	20			9.0			+6.5			208					
		1320	89	16	40			9.0			+7.2	751.4	0	268+330					
		✓	270	41	82			9.0					80						
		1430	89	30	15			9.0			-3.0	748.4	Δ						
		✓	270	27	45			9.0					Δ						
		0						5.0			-5.0	743.4	π	209					
		1760	89	01	05			9.0			+21.2	769.6	π	210					
		1750	88	59	40			9.0			+38.4	786.8	0	210+770				210+990	
		✓	270	58	15			9.0					0						
		2530	90	59	46			9.0		+53.7	+35.9	840.5	Δ						
		✓	268	58	20			9.0					Δ						
		1760	90	59	38			9.0			-39.6	800.9	Δ	211					
		0						5.0			-5.0	835.5	π	212					
		1760	88	45	20			9.0			+29.2	869.7	π	213					
		1310	88	56	13			9.0			+33.1	873.6	0	213+550					
		✓	271	01	32			0.0					0						

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## STADIA SURVEY NOTES

AREA Ikpikpak River STATE Alaska PAGE No. 24  
 LINE No. U9 PARTY No. 1173 DATE Day 26 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R. Ippisch RODMAN K Barr WEATHER Clear P.T.S. No. \_\_\_\_\_

TIME	Bearing or Sight	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	#
		Stadia Distance	Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
		1540	89	21	15			9.07		-7.9	865.7		Δ 213+530		
	✓	270	36	40				9.0					Δ		
		330	88	15	15			9.0		+1.1	866.8		214		
	0	✓						5.0		-5.0	860.7		π 214+330		
		1430	91	07	40			9.0		-32.1	828.6		215		
		2420	91	21	36			9.0		-67.0	798.7		0 215+990?		
	✓	268	36	48				9.0					0		
		2530	86	35	20			9.0		-140.7	658.0		Δ		
	✓	273	22	18				9.0					Δ		
		1760	86	35	19			9.0		+95.8	753.8		216		
	0	✓						5.0		-5.0	653.0		π 217		
		550	91	16	52			9.0		-21.3	636.7		217+530		
		1760	86	22	12			9.0		+101.9	759.9		0 218		
	✓	273	35	30				9.0					0		
		1760	92	07	18			14.07		+20.6	840.5		Δ		
	✓	267	46	57				14.05					Δ		
	0	✓						5.0		-5.0	835.5		π 219		
		1210	89	49	21			9.0		-5.6	834.9		0 219+1210		
	✓	270	08	26				9.0					0		

WORKED BY \_\_\_\_\_

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2nd

## STADIA SURVEY NOTES

AREA Ikpikpok RIVER STATE Alaska PAGE No. 25  
 LINE No. U-9 PARTY No. 1173 DATE Day 27 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Barr WEATHER Clear, Wind 10mph -20° P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			▲ BS ○ FS - SS
		2310	89	04	08			9.0			-27.1	807.8		Δ	219+210	
	"	220	51	28				9.0						Δ		
		1760	89	09	40			9.0	+16.8			824.6		○	220	
	0	✓						5.0	-5.0			802.8		×	221	
		1760	89	47	08			9.0			-3.2	804.6		○	222	
	"	220	09	46				9.0						○		
		1760	89	48	50			9.0			+3.9	808.5		Δ		
	"	220	08	38				9.0						Δ		
	0	✓						5.0	-5.0			803.5		×	223	
		1760	88	38	25			9.0			+32.1	840.6		○	224	
	"	221	19	09				9.0						○		
		2750	91	58	04			9.0			+104.3	944.9		Δ		
	"	267	59	42				9.0						Δ		
		990	92	32	32			9.0	-52.9			892.0			125	
	0	✓						5.0	-5.0			939.9		×	225+220	
		770	90	43	24			9.0	-19.6			925.3			226	
		2520	96	34	20			9.0	-34.3			910.6			227	
		2575	90	34	01			9.0			-35.3	909.6		○	227+25	= TBM 78058
	"	269	23	52				9.0						○		

910.4 = 78058

WORKED BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_

2nd

- 0.8 MISTIE

STADIA SURVEY NOTES

AREA UMCAT STATE or PROVINCE ALABAMA PAGE No. 1A  
 LINE No.(s) 11-9-Return PARTY No. 1173 DATE 13 Day MAY Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. WISLICH RODMAN A. Henderson WEATHER: FAIR 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												273.7				
2		1760	✓							+3.8	277.5		Δ	100		
3		✓	✓										Δ			
4		0	✓									272.5	π	98		
5		1760	✓							-4.2		273.3	0	96		
6		✓	✓										0			
7																
8		2640	89	40	40					-9.4	263.7		Δ			
9		✓	270	17	55								Δ			
10		0	✓									258.7	π	93		
11		1760	89	28	25					+0.9		264.6	0	91		
12		✓	270	30	10								0			
13													π			
14		1760	89	37	10					+3.4	267.9		Δ			
15		✓	270	22	10								Δ			
16		0	✓									262.9	π	89		
17		1960	87	22	10					+8.4		352.8	0	86+660		
18		✓	272	37	20								0			
19																
20																

## STADIA SURVEY NOTES

AREA Ikpikruk RIVER STATE Alaska PAGE No. 26  
 LINE No. U9 PARTY No. 1173 DATE Day 27 Mo 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R. Zippisch RODMAN K. Barr WEATHER Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD		
		1715	89	12	43			910			-14.1	896.3	910.4	= 780.58	
		✓ 210	45	18				910					Δ	227 + 45 = 780.58	
		0	✓					5.0	-5.0				891.3	π	228
		1760	93	58	28			9.0	-131.1				765.2		229
		3190	90	46	56			9.0			-53.7		842.6	0	229 + 1430
		✓ 269	10	40				9.0					0		
		1980	88	46	03			9.0			-32.9	809.7		Δ	
		✓ 271	11	42				9.0					Δ		
		1650	89	10	04			9.0	+15.0				824.7		230
		1210	89	59	45			9.0	-8.9				800.8		230 + 53.7
		0	✓					5.0	-5.0				804.7	+	230 + 16.50
		110	90	31	51			9.0	-10.0				799.2		231
		1320	93	01	50			9.0	-78.8				730.9		231 + 12.10
		1870	90	2.6	2.6			9.0	-23.4				786.3		232
		2640	89	2.8	08			9.0			+14.5		824.2	0	232 + 770
		✓ 270	29	20				9.0					0		
		2860	88	2.8	15			9.0			-66.2	758.0		Δ	
		✓ 271	29	00				9.0					Δ		
		1870	89	40	45			9.0	+1.5				759.5		233

WORKED BY \_\_\_\_\_

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

## STADIA SURVEY NOTES

AREA Ikpikpok RIVER STATE Alaska PAGE No. 27  
 LINE No. U-9 PARTY No. 1173 DATE Day 27 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Barr WEATHER Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
		880	92	25	30			1.0		-28.2			719.8		233+930	
		110	89	53	25			9.0		-8.8			749.2		234	
		0	✓					5.0		-5.0			753.0	TR	234+110	
		660	89	07	0.0			9.0		+1.2			759.2		234+170	
		1450	88	20	12			9.0		+38.9			796.9		235	
		1760	88	26	30			9.0			+38.2		796.2	O	235+110°	
		✓	271	30	45			9.0						O		
		4620	89	40	02			9.0		-17.8		-15.9	780.3	Δ		
		✓	270	17	05°			9.0		-14.0				Δ		
		2970	90	31	18			9.0		-36.0			744.3		236	
		2200	91	52	20			9.0		-80.9			699.4		236+770	
		1210	91	52	50			9.0		-48.7			731.6		237	
		0	✓					5.0		-5.0			775.3	TR	237+1210 237+1480	PIPE = 237+1480
		810	89	53	35			3.0					777.3	O	780 44	
		✓	270	03	43			3.0			-1.8			O		

WORKED BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_

778.24' = 780.44

-0.9 MISTIE<sup>2nd</sup>

34+110

## STADIA SURVEY NOTES

AREA Ikpikruk RIVER STATE Alaska PAGE No. 28  
 LINE No. U-9 PARTY No. 1173 DATE Day 27 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Barr WEATHER Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hoir Read	Reading	Correction	Center Hoir			INST.	ROD		
	SW	810	89	53	35			3.0			+1.8	780.0	778.21	Δ	780.00
		✓	270	03	43			3.0						Δ	
		0	✓					5.0			-5.0	775.0		π	237+1210
	W	330	90	09	10			9.0	-9.9	-10.0		770.0		0	238
		✓	269	47	52			9.0	-10.2					0	
		2530	87	37	34			9.0	-95.8	-94.8		675.2		Δ	
		✓	272	19	35			9.0	-93.7					Δ	
		770	88	51	43			9.0		+6.3		681.5		Δ	239
		0	✓					5.0		-5.0		670.2		π	239+770
		440	95	10	50			9.0		-48.8		626.4			239+1210
		990	91	34	30			9.0		-36.2		633.0			240
		2750	89	40	36			9.0	+6.5	+5.5		680.7		0	241
		✓	270	16	58			9.0	+4.6					0	
		3520	88	03	26			9.0	110.3	-109.0		571.7		Δ	
		✓	271	53	50			9.0	-107.6					Δ	
		1760	89	24	40			9.0		19.1		580.8			242
		0	✓					5.0		-5.0		566.7		π	243
		1760	88	44	24			9.0		+29.7		601.4			244

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## STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE Alaska PAGE No. 29  
 LINE No. U-9 PARTY No. 1173 DATE Day 27 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Barr WEATHER Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hair Read.	Reading	Correction	Center Hair			INST.	ROD		
												571.7			
		2530	88	42	28			9.0	+48.1	+47.0		618.7	0	244	770
		✓ 271	14	47				9.0	+46.0				0		
		660	89	10	42			9.0	-0.5	-0.2		618.5	Δ		
		✓ 270	46	30				9.0	+0.1				Δ		
		0						5.0		-5.0		613.5	π	244	1430
		330	91	46	00			9.0		-19.2		599.3	0	245	
		2090	92	18	22			9.0	-93.1	-93.9		524.6	0	246	
		✓ 267	38	57				9.0	-94.7				0		
		2970	88	48	38			9.0	-52.7	-51.3		473.3	Δ		
		✓ 271	08	19				9.0	-50.0				Δ		
		1210	88	58	10			9.0		+12.8		486.1		247	
		0						5.0		-5.0		468.3	π	247	1210
		550	92	48	08			9.0		-35.9		437.4	0	248	
		2310	92	36	46			9.0	-114.3	-115.3		352.0	0	249	
		✓ 267	20	23				9.0	-116.2				0		
		3520	91	25	00			9.0	+96.0	+97.4		455.4	Δ		
		✓ 268	32	18				9.0	+98.8				Δ		
		1760	91	30	18			4.5		-50.7		404.7		250	
		0						5.0		-5.0		450.4	π	251	

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STADIA SURVEY NOTES

AREA Ikpikpuk RIVER STATE Alaska PAGE No. 30  
 LINE No. U-9 PARTY No. 1173 DATE Day 27 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R Tippisch RODMAN K Rait WEATHER Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hoir Read	Reading	Correction	Center Hoir			INST.	ROD		
												455.4			
		1760	89	33	46			9.0		+4.4		459.8		252	
		3520	89	12	48			9.0	+39.3	39.2		493.6	○	253	
		✓ 270	45	05				9.0	37.2				○		
		990	91	35	51			9.0	36.6	37.0	530.6		▲		
		✓ 268	21	50				9.0	37.3				▲		
		0						5.0		-5.0		525.6	○	253+990	PIPE
		997	89	52	07			9.0	6.7	7.1		523.5	○	78045	
		✓ 270	05	18				9.0	7.5				○		
												522.30		78045	
										MISTIE =		+1.2			
												522.30			
		997	89	52	07			9.0	46.7	47.1	529.4		○	7845	
		✓ 270	05	18				9.0	42.5				▲		
		0						5.0		-5.0		524.4	○	253+990	
		770	89	46	00			9.0		-5.9		523.5	○	2541	
		2200	89	16	55			9.0		17.8	17.8	547.2	○	254+1430	
		✓ 270	40	42				9.0					○		

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## STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE Alaska PAGE No. 31  
 LINE No. U-9 PARTY No. 1173 DATE Day 27 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Barr WEATHER Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD		
		2860	82	35	25			9.0			-110.3	436.9		Δ	254+1430
	✓	272	22	08				9.0						Δ	
		2530	87	36	10			9.0		+96.8		533.7		Δ	255
		770	82	00	21			9.0		+17.8		454.7		Δ	256
	0	✓						5.0		-5.0		431.9		Δ	256+770
		990	93	07	57			9.0				373.8		Δ	257
		1760	93	07	57			9.0		-63.1		331.7		Δ	257+770
		2420	91	01	02			9.0		-105.2		384.0		Δ	257+1430
	✓	260	56	31				9.0						Δ	
		1320	91	13	21			9.0		+40.0	424.0			Δ	
	✓	260	38	08				9.0						Δ	
		990	92	26	30			9.0				372.8		Δ	258
	0	✓						5.0		-5.0		419.0		Δ	258+990
		770	88	54	40			9.0		+5.6		429.6		Δ	259
		2530	88	50	20			9.0		+41.5		465.5		Δ	260
	✓	271	02	27				9.0						Δ	
		1430	91	59	25			9.0		+59.2	524.7			Δ	
	✓	267	58	04				9.0						Δ	
	0	✓						5.0		-5.0		519.7		Δ	260+1430

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## STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE Alaska PAGE No. 32  
 LINE No. U-9 PARTY No. 1173 DATE Day 28 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K Barr WEATHER Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.		
											524.7			
		330	88	31	25			9.0	-0.5		524.2		261	
		669	89	22	24			9.0	-2.0		522.7	0	261+330	
		270	35	00				9.0				0		
		1980	89	16	10			9.0	-14.6	508.1		Δ		
		✓ 270	38	13				9.0				Δ		
		550	91	07	28			9.0	-19.8		488.3		262	
		0	✓					5.0	-5.0		503.1	X	262+550	
		1210	90	24	12			9.0	-17.5		480.6		263	
		2449	89	17	48			9.0	+19.8		527.9	0	213+239	BM-78046
		✓ 270	38	43				9.0				0		
											527.5	=	BM 78046	
											+0.4		MISTIE	
											527.5			
		3490	88	41	25			9.0	-70.8	-69.1	458.4		263+239	
		✓ 271	15	2.0				9.0	-67.5				Δ	
		2970	88	34	40			9.0	+64.7		523.1		264	
		1210	89	51	03			9.0	-5.8		452.6		265	
		0	✓					5.0	-5.0		453.4	X	265+1210	

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## STADIA SURVEY NOTES

AREA Tkpiuk River STATE Alaska PAGE No. 33  
 LINE No. U-9 PARTY No. 1173 DATE Day 28 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R Eppisch RODMAN K. Barr WEATHER clear P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERMER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲ BS ○ FS - SS	Station	FINAL ELEVATIONS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
												458.4				
		550	88	49	49			9.0	+2.2	+2.2		460.6		266		
		1980	89	28	08			9.0	+9.4	+8.8		467.2	○	266+1430?		
		✓ 270	29	50				9.0	+8.2				○			
		1760	88	11	10			9.0	-46.7	-46.2	472.1.0		Δ			
		✓ 271	46	43				9.0	-45.6				Δ			
		1430	88	20	10			9.0	+32.5	+32.5		453.5		267		
		0	✓					5.0	-5.0	-5.0		416.0	π	271+1430		
		230	91	43	20			9.0	-18.9	-18.9		402.1		268		
		2090	92	12	30			9.0	-89.5	-89.5		331.9		269		
		2860	91	20	35			9.0	-76.0	-77.0		344.0	○	269+770		
		✓ 268	37	10				9.0	-77.9				○			
		1826	91	20	45			9.0	+51.9	52.6	396.5		Δ			
		✓ 268	36	40				9.0	+53.3				Δ			
		836	92	30	36			9.0	-45.6	-45.6		350.9		270		
		0	✓					5.0	5.0	-5.0		391.5	π	270+836		
		924	91	17	40			9.0	-29.9	-29.9		366.6		271		
		1974	91	32	00			21.0	-60.4	-60.4		396.4		271+550		
		2590	90	19	55			9.0	-24.0	-24.8		321.7	○	272		
		✓ 269	38	02				9.0	-25.5				○			

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## STADIA SURVEY NOTES

AREA Ikpikpuk River STATE Alaska PAGE No. 34  
 LINE No. U9 PARTY No. 1173 DATE Day 28 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R. Ippisch RODMAN K. Barr WEATHER Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			▲ BS ○ FS - SS
		2090	90	26	58			9.0	+25.4	26.1		397.8		Δ	272	
		✓ 269	30	50				9.0	+26.7					Δ		
		330	89	45	55			9.0	-7.6	-7.6		390.2		π	273	
		0	90					5.0	-5.0	-5.0		392.8		π	273+230	
		880	90	19	20			9.0	-13.9	-13.9		383.9			273+12	0
		1430	89	43	21			9.0	-2.1	-2.1		395.7			274	
		1980	89	34	19			9.0	+5.8	+5.2		403.0		○	274+550	
		✓ 270	23	40				9.0	+4.6					○		
		2800	89	46	51			15.0	+4.3	+5.1	408.1			Δ		
		✓ 270	11	10				15.0	+5.9					Δ		TBM 501
		1590	89	38	12			9.0	+1.1	+1.1		409.2			275	
		0	✓					5.0		-5.0		403.1		π	275+1590	TBM 501
		0	✓					5.0		-5.0		403.1		π		
		0	✓					5.0						○		

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## STADIA SURVEY NOTES

AREA Ikpikpak RIVER STATE Alaska PAGE No. 35  
 LINE No. U9 PARTY No. 1173 DATE Day 28 Mo. 1 Yr. 78 BOOK No. \_\_\_\_\_  
 SURVEYOR R Ippisch RODMAN K. Barr WEATHER Clear P.T.S. No. 11

LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS																											
			Level	Inclined	Angle or Factor	Hoir Read	Reading	Correction	Center Hoir			INST.	ROD						▲ BS ○ FS - SS																							
		0	✓					5.0	+5.0	+5.0		407.0	402.0																													
		0	✓					5.0	+5.0						Δ		275+1590																									
		0	✓					5.0	-5.0	-5.0			402.0		π		275+1590																									
		170	89	47	34			9.0	-8.4	-8.4			398.6				276																									
		1936	89	30	58			9.0	+7.3	+6.7			412.7		○		277																									
		✓	270	27	04			9.0	+6.2						○																											
		2732	90	46	57			9.0	+46.6	+47.4		461.1			Δ																											
		✓	269	18	58			9.0	+48.2						Δ																											
		990	90	41	21			9.0	-20.9	-20.9			440.2				278																									
		0	✓					5.0	5.0	-5.0			456.1		π		278+990																									
		770	90	16	00			9.0	-12.6	-12.6			448.5		○		TS1																									
		3520	89	41	10			9.0	-10.3	-10.3		438.2			Δ																											
		1760	90	38	00			9.0	-28.5	-28.5			409.7				TS2																									
		0	✓					5.0	-5.0	-5.0			433.2		π		TS3																									
		1760	90	18	30			9.0	-18.5	-18.5			419.7		○		TS4																									
		3520	89	50	02			9.0	-1.2	-1.2		418.5			Δ																											
		1760	90	36	43			9.0	-27.8	-27.8			390.7				TS5																									
		0						5.0	-5.0	-5.0			413.5		π		TS6																									

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