

STADIA SURVEY NOTES

AREA Ikpikuk RIVER STATE or PROVINCE Alaska PAGE No. 1
 LINE No.(s) 17 X PARTY No. 1173 DATE 13 Day 2 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R Ippisch RODMAN K Barr WEATHER: Clear -25° 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												532.9				
2	S	3015	89	40	35				10.0	-72	525.7		Δ	INT	17x/72	
3									10.0				Δ	T.S. 3	+172	
4		1430	90	08	43				10.0	-136		512.1		T.S. 4		
5		0							5.0	-5.0		520.7		T.S. 4 + 1430		
6	N	230	89	35	15				10.0	-76		518.1		T.S. 5		
7		2090	90	49	34				21.0	hr -51.0		474.7		T.S. 6		
8																
9																
10																
11																
12																
13												532.9				
14	N	3690	90	27	47				10.0	+41.2	574.1		Δ	INT	17x/72	
15			269	29	05				10.0				Δ	T.S. 3	+170	
16		3520	90	27	07				10.0	-31.5		536.6		3		
17		1760	90	34	46				10.0	-27.7		546.4		2		
18		0							5.0	-5.0		569.1		T.S. 1		
19	S	1760	90	05	44				10.0					T.S. 329		
20			269	49	12				10.0	-19.2		559.9		0		

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AREA IKPILPIL RIVER STATE or PROVINCE ALASKA PAGE No. 2
 LINE No. (s) 17X PARTY No. 1173 DATE 13 Day 2 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. IPPISCH RODMAN G. BARR WEATHER: Clear -25° 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		1760	89	53	42			10.0	+6.8	566.7		Δ	329		
3		✓ 270	65	46				10.0				Δ			
4		0	✓					5.0	-5.0		561.7	π	330		
5		1760	88	41	24			10.0	+30.1		596.8	π	331		
6		✓ 271	17	48				10.0				0			
7															
8		1210	89	14	00			10.0	-6.1	590.7		Δ			
9		✓ 270	45	27				10.0				Δ			
10		0	✓					5.0	-5.0		585.7	π	331+1210		
11		550	91	09	2.0			10.0	-21.1		569.6		332		
12		2310	89	30	00			10.0	+10.3		601.0		333		
13		2440	89	34	4.9			10.0	+9.1		599.8	0	333+330		
14		✓ 270	24	14				10.0				0			
15															
16		2300	88	01	31			10.0	-69.0	530.8		Δ			
17		✓ 271	57	21				10.0				Δ			
18		870	92	50	38			10.0	-53.1		477.7		334		
19		0	✓					5.0	-5.0		525.8	π	334+870		
20		680	91	09	2.4			10.0	-23.3		507.5		334+1430		

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) 17X PARTY No. 1173 DATE 13 Day 2 Mo. 7B Yr. BOOK No. _____
 SURVEYOR T. SHERILL RODMAN K. BARR WEATHER: Clear -25° P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAM 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		890	89	50	01			10.0	-7.4		523.4		335		
3		1660	88	57	10			10.0	+20.2			0	335+770		
4		✓	271	01	51			10.0			551.0	0			
5															
6		2750	90	04	42			10.0	+14.1	565.1		Δ			
7		✓	269	54	03			10.0				Δ			
8		1760	90	56	10			10.0	-38.7		526.4		336		
9		14130	91	53	54			1.0	-48.3		516.8		336+330		
10		0	✓					5.0	-5.0		560.1	π	337		
11		0	✓					5.0	-5.0		560.1	0	337		
12		0	✓					5.0	-5.0			0			
13															
14		1760	91	41	33			10.0	+61.8	621.9		0	337		
15		✓	268	19	06			10.0				Δ			
16		0	✓					5.0	-5.0		616.9	π	338		
17		1760	87	53	02			10.0	+208.1		830.0		339		
18	1870	2090	82	55	00			10.0	+220.7		842.6	0	339+331+110		
19		✓	277	05	10			10.0				0			
20															

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AREA 1 KPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 17X PARTY No. 1173 DATE 14 Day FEB 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															
2	N	440	93	45	35				+39.0	881.6		Δ	339 + 110	WORKED BACKWARD	
3		✓	266	12	45							Δ			
4		0	✓						-5.0		876.6	π	339 + 550		
5	S	648	88	56	35				+1.8		883.4	0	78059 = 339 + 1198		
6			271	02	00							0			
7											883.43	0	T 34 78059		
8															
9															
10															
11											883.4		T 34 78059 = 339 + 1198		
12	N	892	87	45	40				-24.7	859.1		Δ	339 + 1198		
13		✓	272	13	00							Δ			
14		330	80	30	30				+10.1		869.2	π	340		
15		0	✓						-5.0		854.1	π	340 + 330		
16	S	1430	92	29	45				-72.2		786.9	0	341		
17		2640	91	43	46				-90.0		769.1	0	341 + 1210		
18		✓	268	15	00							0			
19															
20															

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STADIA SURVEY NOTES

AREA IKPIKPAK RIVER STATE or PROVINCE ALASKA PAGE No. 5
 LINE No.(s) 17 X PARTY No. 1173 DATE 14 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERRILL RODMAN K. BARR WEATHER: ICE 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																
2	N	242.0	93	13 00				10.0		+146.0	915.2		Δ	341+989.0		
3		✓ 266	46	05				10.0					Δ			
4		187.0	93	42 20				10.0		-130.8	784.4			342		
5		110	89	58 05				10.0		-9.9	905.3			343		
6		0						5.0		-5.0	910.2		π	343+110		
7	S	440	90	57 40				10.0		-17.5	897.7		○	343+550		
8		✓ 269	01	10				10.0					○			
9																
10	N	139.0	85	56 40				10.0		-83.2	814.7		Δ	343+550		
11		✓ 274	02	25				10.0					Δ			
12		110	85	16 40				10.0		-0.9	813.8			344		
13		0	✓					5.0		-5.0	809.7		π	344+110		
14	S	132.0	87	18 30				10.0		+51.8	866.5		○	344+1430		
15		✓ 272	40	30				10.0					○			
16																
17	N	330	88	14 30				10.0		-0.1	866.8		Δ	344+1430		
18		✓ 271	44	30				10.0					Δ			
19		0	✓					5.0		-5.0	861.8		π	345		
20		121.0	91	33 40				10.0		-42.9	823.9			345+1210		

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AREA IKPIK RIVER STATE or PROVINCE ALASKA PAGE No. 6
 LINE No.(s) 17 X PARTY No. 1173 DATE 14 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERMAN RODMAN K. BAGA WEATHER: 100% 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.			
1															
2	S	1760	90	54	10			10.0	-37.7		829.1		346		
3		2750	89	41	50			10.0	+4.3		871.1	0	346 + 990		
4		✓	270	17	10			10.0				0			
5															
6	N	770	92	34	45			10.0	+44.8	915.9		Δ			
7		✓	267	24	25			10.0				Δ			
8		0	✓					5.0	-5.0		910.9	π	347		
9	S	183	88	34	35			10.0	-5.5		910.4	0	347 + 183	= FROM 7805B	
10		✓	271	24	20			10.0				0		SP 347+183 17X = SP 227+45 14-9	
11											910.4	FROM	7805B	70-35	
12											911.0		MISTAKE R/W		
13															
14											910.4		FROM 7805B		
15	S	183	88	34	35			10.0	+5.5	915.8		Δ	347 + 183	(INT 174/14-9)	
16		✓	271	24	20			10.0				Δ			
17		0	✓					5.0	-5.0		910.8	π	347		
18	S	587	90	48	25			10.0	+21.0		894.8	0	347 + 770		
19	170	✓	269	10	25			10.0				0			
20															

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AREA IKPIKPIK RIVER STATE or PROVINCE ALASKA PAGE No. 7
 LINE No.(s) 17 X PARTY No. 1173 DATE 14 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERRILL RODMAN K. BARR WEATHER: ICE Rd - 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		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1												894.8				
2	N	2750	.87	39 20				10.0		-102.1	792.5		Δ	347+770		
3		✓	272	19 20				10.0					Δ			
4		1760	89	24 40				10.0		+8.2		800.7		348		
5		770	93	35 10				10.0		-58.2		734.3		348+990		
6		0	✓					5.0		-5.0		787.5	π	349		
7	S	330	88	58 20				10.0		-4.1		788.4	0	349 + 330		
8		✓	271	06 20				10.0					0			
9																
10	N	3190	90	24 10				10.0		+32.8	821.1		Δ	349 + 330		
11		✓	269	34 40				10.0					Δ			
12		1760	92	52 00				10.0		-98.0		723.1		350		
13		1210	94	12 25				10.0		-98.7		722.4		350+550		
14		0	✓					5.0		-5.0		816.1	π	351		
15	S	370	89	54 00				10.0		-8.0		812.3	0	351 + 770		
16		✓	270	04 50				10.0					0			
17																
18	N	990	86	47 30				10.0		-45.3	766.6		Δ	351 + 770		
19		✓	273	11 20				10.0					Δ			
20		0	✓					5.0		-5.0		761.6	π	352		

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AREA IKPIK RIVER STATE or PROVINCE ALASKA PAGE No. 8
 LINE No.(s) 17 X PARTY No. 1173 DATE 14 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERRILL 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												766.6			
2	S	550	92	04	15			10.0		-29.9		736.7		352+550	
3		1760	89	00	40			10.0		+20.4		787.0		353	
4		2530	88	02	55			10.0		+75.9		842.5	0	353+770	
5		✓	271	56	10			10.0					0		
6															
7	N	660	87	35	10			10.0		-17.7	824.3		A	353+ 770 770	
8		✓	272	23	50			10.0					Δ		
9		0	✓					5.0		-5.0		819.3	π	353+1430	
10	S	330	94	18	10			10.0		-34.8		789.5		354	
11		880	95	02	20			10.0		-87.3		737.0		354+550	
12	(3)	2090	93	08	45			10.0		-124.9		699.4	0	355	
13		✓	266	50	15			10.0					0		
14															
15	N	1760	87	20	25			10.0		-71.4	627.9		Δ	355	
16		✓	272	38	20			10.0					Δ		
17		330	98	48	20			1.0		-51.5		576.4		355+1430	
18		0	✓					5.0		-5.0		622.9	π	356	
19	S	550	84	27	20			10.0		+43.1		671.0	0	356+550	
20		✓	275	31	40			10.0					0		

670.9

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+105.3

STADIA SURVEY NOTES

AREA IKPIKPAK RIVER STATE or PROVINCE ALASKA PAGE No. 9
 LINE No.(s) 17x PARTY No. 1173 DATE 14 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHARJIN 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		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction				INST.	ROD			
1																
2	N	880	91	08	00			10.0		+27.5	698.0		Δ	356+550		
3		✓	268	51	30			10.0					Δ			
4		0	✓					5.0		-5.0	693.0		π	356+1430	100000	
5	S	330	93	32	50			10.0		-30.4	667.6		1	357		
6		1100	95	33	15			10.0		-116.6	581.4			357+770		
7	①	2090	91	49	00			10.0		+77.2	620.8		10	358		
8		✓	268	07	40			10.0					0			
9																
10	N	2310	92	51	30			10.0		+125.9	746.2		Δ	358		
11		✓	267	06	00			10.0					Δ			
12		550	94	40	50			10.0		-54.9	691.3			359		
13		0	✓					5.0		-5.0	741.2		π	359+550		
14	S	1210	91	01	45			10.0		-31.7	714.5			360		
15		2970	90	28	20			10.0		-34.9	711.3		0	361		
16		✓	269	30	20			10.0					0			
17																
18	N	1760	90	43	40			10.0		+37.7	743.7		Δ	361		
19		✓	269	14	40			10.0					Δ			
20		990	92	01	30			10.0		-45.0	698.7			361+770		

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 10
 LINE No.(s) 17X PARTY No. 1173 DATE 15 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERMILL RODMAN K. BARR WEATHER: WET SNOW FLURRIES A.M. P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD		
1															
2		0	✓					5.0		-5.0		738.7	π	362	
3	S	1760	88	02 45				10.0		+50.0		793.7		363	
4		1839	88	05 10				12.0		+49.0		792.7	⊙	78057 = 363 + 79'	
5		✓	271	53 10				12.0					⊙		
6												792.7	TBM	78057	
7												+2.7 RAW		792.65	
8															
9												792.7	TBM	78057	
10	N	1681	87	11 35				12.0		-70.0	723.1		Δ	363 + 79 = 78057	
11		✓	272	46 50				12.0					Δ		
12		0	✓					5.0		-5.0		718.1	π	364	
13	S	550	92	09 30				10.0		-30.7		692.4		364 + 550	
14		1760	91	06 55				4.0		-38.2		684.9		365	
15		2640	90	45 35				10.0		-45.4		677.7	⊙	366	
16		✓	269	13 00				10.0					⊙		
17															
18	N	2640	89	43 30				10.0		-2.2	675.9		Δ	366	
19		✓	270	15 00				10.0					Δ		
20		1760	89	41 20				10.0		-0.4		675.5		367	

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AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 11
 LINE No.(s) 17X PARTY No. 1173 DATE 15 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHAWL RODMAN K. BARR WEATHER: SNOW FILLS 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	N	880	✓					3.0	-3.0		672.9	368		
3		0	✓					5.0	-5.0		670.9	π 369		
4	S	880	✓					5.2	-5.2		670.7	370		
5		1760	✓					1.8	-1.8		674.1	371		
6		2640	89	51 50				5.0	+0.8		676.8	○ 372		
7		✓	270	06 50				5.0				○		
8														
9	N	2090	90	53 05				15.0	+07.7	724.5		Δ 374		
10		✓	269	05 10				15.0				Δ		
11		1210	91	21 30				15.0	-43.7		680.8	373		
12		330	✓					12.8	-12.8		711.7	374		
13		0	✓					5.0	-5.0		719.5	π 374 + 330		
14	W	100	✓					3.97	-3.9		720.6	○ 784 6809		
15		✓	✓					3.9						
16											720.6	784 6809		
17											-0.8	MISPLD ROW		
18											720.6	784 6809		
19	SW	100	✓					3.97	+3.9	723.7		Δ		
20		✓	✓					3.9				Δ		

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AREA IKOIKPAK RIVER STATE or PROVINCE ALASKA PAGE No. 12
 LINE No.(s) 17x PARTY No. 1173 DATE 15 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERRILL 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												723.7			
2	S	550	89	57	10				10.0	-9.5		714.2		375	
3		1430	90	50	10				21.0 ^{h.c.}	-41.8		681.9		376	
4		2310	90	48	00				10.0	-42.1		681.6		377	
5		3190	90	35	10				10.0	-43.0		680.7	0	378	
6		✓	269	23	30				10.0				0		
7															
8	N	1210	92	15	50				10.0	+58.0		738.6		378	
9		✓	267	42	45				10.0						
10		330	90	23	50				15.0	-17.3		721.3		379	
11		0	✓						5.0	-5.0		733.6	π	379+330	
12	S	550	88	33	30				10.0	+3.7		742.3	0	380	
13		✓	271	25	00				10.0				0		
14															
15	N	2640	88	38	20				10.0	-52.2		689.5		380	
16	N	✓	271	20	00				10.0						
17		1760	88	37	10				10.0	+32.5		722.0		381	
18		880	✓						5.5	-5.5		684.0		382	
19		0	✓						5.0	-5.0		684.5	π	383	
20	S	880	89	27	30				5.0	+3.3		692.8		384	

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 13
 LINE No.(s) 17X PARTY No. 1173 DATE 15 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERRILL RODMAN K. BARR WEATHER: OVERCAST 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												689.5			
2	S	1760	88	31 00				10.0		+35.6		725.1		385	
3		2640	87	49 30				10.0		+89.9		779.4	○	386	
4		✓	272	09 20				10.0					○		
5															
6	N	1210	93	23 50				10.0		+81.9	861.0		▲	386	
7		✓	266	34 45				10.0					▲		
8		330	91	56 40				10.0		-21.2		839.8		387	
9		0	✓					5.0		-5.0		856.0	π	387+330	
10	S	550	88	35 00				10.0		+3.6		864.6		388	
11		1100	89	12 00				10.0		+5.2		866.2	○	388+550	
12		✓	270	46 40				10.0					○		
13															
14	N	2640	88	28 25				10.0		-6.0	805.7		▲	388+550	
15		✓	271	30 20				10.0					▲		
16		2310	88	22 10				10.0		+55.8		861.5		389	
17		1430	88	40 00				2.0		+31.3		837.0		390	
18		550	89	29 00				4.0		+1.0		806.7		391	
19		0	✓					5.0		-5.0		800.7	π	391+550	
20	S	330	92	07 00				4.0		-16.2		789.5		392	

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STADIA SURVEY NOTES

AREA IKPIRAK RIVER STATE or PROVINCE ALASKA PAGE No. 14
 LINE No.(s) 17X PARTY No. 1173 DATE 15 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERRILL RODMAN K. BARR WEATHER: PARTLY 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	S	1210		91 30	40				4.0	-35.9	769.8		393			
3		2090		91 03	55				10.0	-48.8	756.9		394			
4		2473		91 01	40				10.0	-54.8	750.9	⊙	394	393 = 78056		
5		✓		268 56	50				10.0				⊙			
6											750.91		TBM	78056		
7											-2.3		MISTIF RAN			
8																
9											750.9		TBM	78056		
10	N	3137	89	45 10					10.0	-30.6	720.3		Δ	394 + 393 = 78052		
11		✓	270	43 40					10.0				Δ			
12		2640	89	38 10					10.0	+6.9	727.2		395			
13		1760	90	25 25					10.0	-22.9	697.4		396			
14		880	91	32 20					15.0	-38.6	681.7		397			
15		0	✓						5.0	-5.0	715.3		✕	398		
16	S	880	90	14 10					10.0	-13.6	706.7		399			
17		1760	90	34 25					10.0	-27.9	697.4	⊙	400			
18		✓	269	24 15					10.0				⊙			
19																
20																

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STADIA SURVEY NOTES

AREA: IKPIK PUK RIVER STATE or PROVINCE: ALASKA PAGE No. 15
 LINE No.(s) 17 X PARTY No. 1173 DATE 15 Day FEB Mo. 28 Yr. BOOK No. _____
 SURVEYOR F. SHERBILL RODMAN K. BARR WEATHER: CLOUDY P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	SEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	N	1430	86	18	30				11.0	-80.7	611.8		Δ	400		
3		✓	273	39	30				11.0				Δ			
4		550	85	41	30				10.0	+31.3		643.1		401		
5		0	✓						5.0	-5.0		606.8	π	401+550		
6	S	330	94	17	35				10.0	-34.7		577.1		402		
7		1210	93	40	20				10.0	-87.5		524.3		403		
8		1540	92	59	00				10.0	-90.1		521.7		403+330		
9		2090	90	55	10				15.0	-48.4		563.4		404		
10		2970	89	29	00				2.0	+24.5		636.3	⊙	405		
11		✓	270	30	00				2.0				⊙			
12																
13	N	880	92	17	35				15.0	+50.3	686.6		Δ	405		
14		✓	267	41	25				15.0				Δ			
15		0	✓						5.0	-5.0		681.6	π	406		
16	S	880	87	56	50				10.0	+21.5		708.1		407		
17		1760	87	27	40				10.0	+68.0		754.6		408		
18		2640	87	40	00				16.0	+97.2		783.8	⊙	409		
19		✓	272	19	00				10.0				⊙			
20																

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STADIA SURVEY NOTES

AREA IKPIKPAK RIVER STATE or PROVINCE ALASKA PAGE No. 16
 LINE No.(s) 17 X PARTY No. 1173 DATE 15 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERRILL RODMAN K. BALL 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. ○F.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	N	2090	89	45	20				10.0	+0.1	783.9		Δ	409		
3		✓	270	17	30				10.0				Δ			
4		1210	89	19	00				10.0	+4.5	788.4			410		
5		330	89	05	00				10.0	-4.7	779.2			411		
6		0	✓						5.0	-5.0	778.9		π	411+330		
7	S	550	91	02	50				10.0	-20.0	763.9			412		
8		1430	90	22	20				10.0	-21.7	762.2			413		
9		2310	90	11	25				10.0	-17.9	766.0		○	414		
10		✓	269	47	30				10.0				○			
11																
12	N	1210	89	27	10				10.0	-1.4	764.6		Δ	410		
13		✓	270	31	35				10.0				Δ			
14		330	88	31	10				10.0	-1.5	763.1			415		
15		0	✓						5.0	-5.0	759.6		π	415+330		
16	S	350	90	17	50				10.0	-12.8	751.8			416		
17		1430	90	39	40				10.0	-26.7	737.9		○	417		
18		✓	269	19	00				10.0				○			
19																
20																

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 17
 LINE No.(s) 17 X PARTY No. 1173 DATE 15 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR T. SHERRILL 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	N	1650	90	45 15				10.0		+32.0	769.9		Δ	417	
3		✓ 269	13 30					10.0					Δ		
4		770	90	57 00				15.0		-27.8	742.1			418	
5		0	✓					5.0		-5.0	764.9		X	418+770	
6	S	110	88	41 00				10.0		-7.5	762.4			419	
7		990	90	40 20				10.0		-21.6	748.3			420	
8		1870	90	50 40				10.0		-37.9	732.0		⊙	421	
9		✓ 269	07 50					10.0					⊙		
10															
11	N	1430	90	50 30				10.0		+31.2	763.2		Δ	421	
12		✓ 269	08 15					10.0					Δ		
13		550	91	08 40				10.0		-21.0	742.2			422	
14		0	✓					5.0		-5.0	758.2		X	422+550	
15	S	330	90	24 40				10.0		-12.4	750.8			423	
16		1210	91	23 55				10.0		-39.5	723.7			424	
17		2090	90	08 40				10.0		-15.2	748.0			425	
18		2970	89	43 40				10.0		+3.8	767.0		⊙	426	
19		✓ 270	15 10					10.0					⊙		
20															

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STADIA SURVEY NOTES

AREA IKPIKPAK RIVER STATE or PROVINCE ALASKA PAGE No. 18
 LINE No.(s) 17x PARTY No. 1173 DATE 16 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. IPPISCH RODMAN K. BARR WEATHER: Fog -20 P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair-Read	Reading	Correc-tion				INST.	ROD		
1															
2	N	2640	89	27	00			15.0		-9.8	757.2		Δ	426	
3		✓ 270	81	10				15.0					Δ		
4		1760	89	22	45			15.0		+4.1	761.3			427	
5		880	88	46	57			15.0		+3.7	760.9			428	
6		0	✓					5.0		-5.0	752.2		κ	429	
7	S	880	89	20	53			15.0		-5.0	752.2			430	
8		1760	89	15	05			15.0		+8.1	765.3			431	
9		2640	89	12	40			15.0		+21.2	778.4		0	432	
10		✓ 270	46	27				15.0					0		
11															
12		2640	89	10	44			15.0		-22.6	755.9		Δ		
13		✓ 270	48	12				15.0					Δ		
14		1760	89	16	10			15.0		+7.5	763.4			433	
15		880	88	50	05			15.0		+2.9	758.8			434	
16		0	✓					5.0		-5.0	750.9		κ	435	
17		880	88	34	43			15.0		+6.8	762.7			436	
18		1760	89	41	17			15.0		-5.4	750.5			437	
19		2640	89	44	55			15.0		-3.7	752.2		0	438	
20		✓ 270	14	04				15.0					0		

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STADIA SURVEY NOTES

AREA Ikpiqpuq RIVER STATE or PROVINCE Alaska PAGE No. 19
 LINE No.(s) 17X PARTY No. 1173 DATE 16 Day 2 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. ILLISCH RODMAN K. BARR WEATHER: Fog -20 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		2970	89	44	17				15.0	+1.7	754.0		Δ	438		
3		✓ 270	14	36					15.0				Δ			
4		2090	89	51	32				15.0	-9.8	744.2			439		
5		1210	90	11	48				15.0	-19.1	734.9			440		
6		330	89	24	57				15.0	-11.6	742.4			441		
7		0	✓						5.0	-5.0	749.0		κ	441.330		
8		550	90	03	17				15.0	-15.5	738.5			442		
9		1480	90	43	33				15.0	-33.1	720.9			443		
10		2310	89	47	41				15.0	-7.0	747.0		0	444		
11		✓ 270	11	14					15.0				0			
12																
13		880	89	42	52				15.0	+10.7	757.8		Δ			
14		✓ 270	16	03					15.0				Δ			
15		0	✓						5.0	-5.0	752.8		κ	445		
16		550	90	10	56				15.0	-16.9	740.9		0	445.550		
17		✓ 269	47	30					15.0				0			
18																
19		2970	85	04	10				15.0	-239.9	501.0		Δ			
20		✓ 274	59	34					15.0				Δ			

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STADIA SURVEY NOTES

AREA Ikpiqpuk RIVER STATE or PROVINCE Alaska PAGE No. 20
 LINE No.(s) 17X PARTY No. 1173 DATE 16 Day 2 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. AMISCH RODMAN K. BARR WEATHER: Fog -20 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										501.0				
2		2640	85	06	42			15.0	+210.1		711.1	446		
3		1760	86	23	30			15.0	+95.8		596.8	447		
4		880	89	05	50			15.0	-1.1		489.9	448		
5		0	✓					15.0	-5.0		496.0	449		
6		880	89	26	01			15.0	-6.3		494.7	450		
7		1760	89	48	50			15.0	-9.2		491.8	451		
8		2640	89	54	54			15.0	-11.6		489.4	452		
9		✓	270	03	26			15.0				0		
10														
11		2640	89	43	46			15.0	+3.0	492.4		Δ		
12		✓	270	14	36			15.0				Δ		
13		1760	89	39	18			15.0	-4.3		488.1	453		
14		880	89	24	00			15.0	-5.8		486.6	454	REFER P-22	
15		0	✓					5.0	-5.0		487.4	455	FOR TIE	
16		880	89	10	39			15.0	-2.4		490.0	456		
17		1760	89	38	41			15.0	-4.0		488.4	457		
18		2640	89	47	16			15.0	-5.7		486.7	458		
19		✓	270	11	02			15.0				0		
20														

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STADIA SURVEY NOTES

AREA IKPIKPIK RIVER STATE or PROVINCE ALASKA PAGE No. 21
 LINE No.(s) 17x PARTY No. 1173 DATE 16 Day 2 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. IAPISCH RODMAN K. BALL WEATHER: Fog -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		2640	89	50	48				15.0	+7.8	494.4		Δ	458	458	
3		✓	270	07	28				15.0				Δ			
4		1760	89	44	45				15.0	-7.1		487.3		459		
5		880	89	23	43				16.0	-5.7		488.7		460		
6		0	✓						5.0	-5.0		489.4	K	461		
7		880	89	19	00				15.0	-4.5		489.9		462		
8		1760	89	33	36				15.0	-1.7		491.7	0	463	EOL PIPE	
9		✓	270	25	07				15.0				0			
10																
11													Δ			
12													Δ			
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA IKPIKPIK RIVER STATE or PROVINCE ALASKA PAGE No. 22
 LINE No.(s) 17X PARTY No. 1173 DATE 16 Day FEB Mo. 28 Yr. BOOK No. _____
 SURVEYOR R. IPPISCH RODMAN K. BARR WEATHER: FOG -20 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												486.6	REFER L-14 P-20		
2		0	✓							+5.0	491.6		Δ 454		
3		0	✓										Δ		
4		0	✓							-5.0			π 454		
5	ENE	1220		89 33 23						-5.8		485.8	○ T.P. 1		
6		✓		270 25 14									○		
7															
8	WSW	2780		89 46 09						+4.0	489.8		Δ		
9		✓		270 12 55									Δ		
10		0	✓							-5.0			π		
11	ENE	2500		89 49 08						-7.3		486.5	○ T.P. 2		
12		✓		270 10 00									○		
13															
14	WSW	1800		89 49 52						* 4.8	487.3		Δ		* -9.82
15		✓		270 09 23									Δ		
16		0	✓							-5.0			π		
17	ENE	1820		82 54 48						+709.3		696.7	○ T.P. 3		
18		✓		177 04 14									○		
19															
20															

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STADIA SURVEY NOTES

AREA IKPIKPAK RIVER STATE or PROVINCE ALASKA PAGE No. 23
 LINE No.(s) 17X PARTY No. 1173 DATE 16 Day FEB Mo. 78 Yr. BOOK No. _____
 SURVEYOR R. IPPSCH RODMAN K. BARR WEATHER: CLEAR -20 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												696.7			
2	WSW	1230	91	10	14			10.0		+35.3	732.0		Δ	781.3	
3		✓	262	48	38			10.0					Δ		
4		0	✓					5.0		-5.0			π		
5		0	✓					5.0		-5.0		727.0	0	78053	
6		0	✓					5.0							
7												727.0	✓	TBM 78053	
8															
9												-0.1		RAW	
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

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