

**STADIA SURVEY NOTES**

AREA IKPAKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 63  
 LINE No.(s) 05 PARTY No. 1195 DATE 17 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. BAINS 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		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3																
4	E	860/3720	✓					B	7.3	15.9		-16.0	832.3		Δ	
5				269	55	57				14.0					CHK	
6										5.0					κ	
7	W	1090/3180		94	02	38				14.0	-167.8	-167.9	664.5		○	
8				215	55	41				13.0	-167.9				CHK	
9	E	750		89	30	00				3.3	-3.2		661.3		Δ	
10			✓	270	37	21				5.0	-3.2				CHK	
11		0								5.0					κ	SP 303
12	E	20	✓							5.6			655.7		○	T.B.M. @ 303
13																
14																
15																
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 64  
 LINE No.(s) 05 PARTY No. 1195 DATE 17 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN 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		Station	REMARKS		
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			AB.S. OF S. - S.S.	
1																	
2																	
3	S	1210		910820					14.0	+38.1		660.4	622.3				No TAIL SPREAD
4		✓		2184822					13.0	+38.2				CHK.			PIPE SET.
5		330		2684216					14.0				638.9				SP 301
6		0							5.0				655.4				GP #2
7		550	✓						8.1				652.3				SP 302
8		1440	✓						4.7		4.7		635.7				SP 303 T.B.M. P2 P3
9	N	1230	✓						2.2				657.9				SP 304
10		✓		2700351					5.0					CHK.			
11	S	1210	✓						19.8				677.8				
12		1		2694331					14.0					CHK.			
13		330	✓						7.5				670.3				305
14		0							5.0				672.8				GP2
15		550	✓						13.6				664.2				306
16		1430	✓						11.2				666.6				307
17		2310	✓						5.5				672.3				308
18	N	2860	✓							12.7			690.2				GP3
19		✓		2701707					2.0	12.4				CK			689.9
20																	

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### STADIA SURVEY NOTES

AREA IKPIK PUK RIVER STATE or PROVINCE ALASKA PAGE No. 65  
 LINE No.(s) 05 PARTY No. 1195 DATE 17 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINES WEATHER: \_\_\_\_\_ 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															
3	S	2500		91 09 22					14.°			755.0			
4		✓		268 48 34					13.°					CK	
5		2160		91 30 00					9.°			689.4		309	
6		1620		92 34 55					14.°			662.0		GP 3	BOTTOM DRAW.
7		1300		92 28 26					14.°			684.9		310	
8		425		91 12 20					14.°			732.1		311	
9		0							5.°			750.0		τ	
10		460	v				B	13.°	23			739.7		312	
11	N	1020		91 01 21					14.°			722.7		GP 3	722.1
12		✓		268 54 25					13.°					CK	
13	S	1760		92 34 50					14.°			816.1		Δ	
14		✓		267 22 34					13.°					CK	
15		1430		94 10 35					14.°			697.9		313	BOTTOM DRAW.
16		550		92 57 49					14.°			793.7		314	
17		0							5.°			811.1		τ	GP 3
18		330		88 58 11					1.°			821.1		315	
19		1210		88 47 13					7.°			834.7		316	
20															

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**STADIA SURVEY NOTES**

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 66  
 LINE No.(s) 05 PARTY No. 1195 DATE 17 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. TRAINS WEATHER: -10° CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2															
3		2090		88 49 20					10			858.0		317	
4	N	2640		88 43 14					3.0			871.7	○	GP3	870.5
5		✓		87 18 41					5.0					CHK.	
6	S	2970		90 54 44					5.0		924.1			△	
7		✓		86 02 27					3.0					CK	
8		2640		90 48 16					14.0			872.9		318	
9		1760		90 40 00					11.4			892.1		319	
10		880		90 20 00					12.1			906.8		320	
11		0							5.0			919.1	κ	321	
12		880		89 10 00					2.0			934.9		322	
13		1760		89 10 00					2.6			947.0		323	
14	N	2310		89 10 00					7.1		26.3	950.4	○	GP3	949.1
15		✓		87 50 57					8.0					CHK.	
16		2090		91 04 35					14.0		53.5	1003.9		△	
17				268 53 15					13.0					CHK.	
18		1760		91 11 27					14.0			953.2		324	
19		880		91 50 41					14.0			961.5		325	
20		0							5.0			998.8		326	

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### STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 67  
 LINE No.(s) 05 PARTY No. 1195 DATE 17 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINS WEATHER: CLEAR - 70° 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															
3		880		88 22 47					2.0			1026.7	327		
4		1760		88 23 20					1.0			1051.2	328		1027.2
5	N	2640		88 14 07					6.0	74.9		1078.8	0 329		TBM 507
6		✓		87 46 26					7.0			1077.2	CK.		TBM 507 TIE 1.6.
7	S	330		89 15 23					2.0	2.3	1076.6		Δ		IRON PIPE SET.
8		ck.		270 54 05					3.0	2.2			CK.		
9		0							5.0			1071.6	κ	GP2	
10		550		92 30 00					13A			1039.2	330		
11		1430		92 48 40					14.0			992.4	331		DRAW. ↓
12	N	1980		92 41 22					14.0	107.0		969.2	0	GP3.	
13		✓		267 15 37					13.0	107.4			CK.		967.6
14	S	1760		87 54 11					2.4	61.9	907.2		Δ		
15		✓		87 52 55					3.0	62.0			CK.		
16		1430		88 30 00					4.0	33.4		940.6	332		
17		550		92 00 00					13.7			874.3	333		
18		0							5.0			902.3	κ	GP3	
19															
20															

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**STADIA SURVEY NOTES**

AREA IKPIK PUK RIVER STATE or PROVINCE ALASKA PAGE No. 68  
 LINE No.(s) 05 PARTY No. 1195 DATE 17 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. PAINE 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		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1														
2														
3		330 ✓						9.0			898.2	334		
4	N	1210		90 38 36				14.0	27.6		879.4	335	877-8	878.0
5		✓		269 17 13				13.0	27.9			CHK.		
6	S.	1430		84 11 19				9.0	135.8	743.9		Δ		
7		✓		275 49 47				10.0	135.5			CK		
8		550		84 20 00				1.6			796.6	336		
9		0						5.0			738.9	GP 3		
10		330		94 40 00				14.6			702.5	337		
11		1210		95 00 00				14.5			623.9	338	DEAW.	
12		2090		91 40 00				10.5			672.5	339	"	
13	N	2970		88 35 07				2.0	71.1		814.8	340	813.2	
14		✓		271 25 27				3.0	70.9			CHK		
15	S	880		93 00 06				14.0	60.1	875.0		Δ		
16		✓		266 55 07				13.0	60.2			CK.		
17		0						5.0			870.0	341		
18		880		87 20 00				2.4			913.5	342		
19	N	1210		87 20 00				8.0	50.3		925.1	GP 2	923.6	923.9
20		✓		272 42 12				7.0	50.2			CK		

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**STADIA SURVEY NOTES**

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 69  
 LINE No.(s) 05 PARTY No. 1195 DATE 18 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINS WEATHER: "10" WINDY 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	S	1540		86 17 52					8.0		91.3	833.9		Δ		
3		✓		273 41 20					8.0		91.2			CK		
4		990		86 40 00					1.2			890.2			343	
5		110	✓						8.8			831.1			344	
6		0							5.0			828.9		κ	GPI	
7		770		88 20 00					9.8			846.5			345	
8	N	1650		88 15 17					4.0		46.2	879.9		○	346	878-4
9		✓		87 46 07					5.0		46.0				CK	
10	S	990	✓						6.1		6.1	886.0		Δ		
11		✓		869 56 07					5.0		6.1				CK	
12		110	✓						4.2			881.8			347	
13		0							5.0			881.0		κ	GPI	
14		770		91 30 00					14.4			851.5			348	
15		1650		91 30 00					10.4			832.4			349	
16	N	2520		91 13 45					13.0		67.2	818.8		○	350	
17		✓		268 42 06					10.0		67.2				CK	817-3 818.1
18	S	1430		88 15 53					5.0		38.3	780.6		Δ		
19		✓		871 46 14					6.0		38.2				CK	
20																

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**STADIA SURVEY NOTES**

AREA IKPIK PUK RIVER STATE or PROVINCE ALASKA PAGE No. 70  
 LINE No.(s) 05 PARTY No. 1195 DATE 18 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINS. WEATHER: \_\_\_\_\_ 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															
3		550		88 10 20				5.0				793.2	351		
4		0						5.0				775.6		GP 3	
5		330		92 23 33				14.0				752.9	352		
6	N	1210		94 20 26				14.0	105.6			675.0	353	673.5 674.4	
7		✓		86 36 35				13.0	105.6				CK		
8	S	1870		90 52 42				14.0	42.7	717.8			Δ		
9		✓		86 05 21				13.0	42.8				CK		
10		990		90 30 00				12.6				696.5	354		
11		110	✓					5.0				712.8	355		
12		0						5.0				712.8	GP 1		
13	N	660		92 35 07				14.0	13.8			674.0	GP 4	672.4 673.5	
14		✓		86 19 31				13.0	13.8				CK		
15	S	1320		85 05 15				1.0	112.0	562.0			Δ		
16		✓		87 57 01				2.0	111.9				CK		
17		1210		85 14 43				2.0				660.3	356		
18		440		91 35 40				1.0				548.8	GP 4	4	
19		330		89 50 00				12.5				550.5	357		
20															

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**STADIA SURVEY NOTES**

AREA IKPIK PUK RIVER STATE or PROVINCE ALASKA PAGE No. 71  
 LINE No.(s) 05 PARTY No. 1195 DATE 18 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. TRAINS WEATHER: \_\_\_\_\_ 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																
3		0										5.0				
4	N	440		91° 36' 10"							26.3	14.0	557.0	K	GP 2	
5		✓		268 15 57							26.3	13.0	535.7	O	GP 4	534.2 535.4
6	S	1320		90 48 58							328	14.0	568.7	Δ		
7		✓		269 07 51							32.9	13.0		CK		
8		1210		91 20 43								14.0	526.2		358	
9		880		93 19 40								14.0	523.6		GP 2	
10		3.30		91 49 07								14.0	544.2		359	
11		0										5.0	563.7	K	GP 2	
12		440		88 06 32								1.0	582.2		GP 4	
13	N	550		88 04 30							12.5	6.0	581.1	O	360	579.6 580.9
14		✓		212 01 40							12.5	7.0		CK		
15	S	1430		91 28 08							50.7	14.0	631.9	Δ		
16		✓		268 29 06							50.8	13.0		CK		
17		550		93 00 41								14.0	589.0		361	
18		0										5.0	626.9	K	GP 3	
19																
20																

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### STADIA SURVEY NOTES

AREA IKPIKPIK RIVER STATE or PROVINCE ALASKA PAGE No. 72  
 LINE No.(s) 05 PARTY No. 1195 DATE 18 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINS WEATHER: \_\_\_\_\_ 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															
3		330		88 38 25					1.0			638.7	362		
4	N	1080		87 20 32					6.0	44.1		675.9	○ TBM 506	674.4	
5		✓		212 42 19					7.0	44.0			CK.		
6												675.9	TBM 506	TIE 15	
7												0.0	TIE		675.9
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

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### STADIA SURVEY NOTES

AREA IKPIKPIK RIVER STATE or PROVINCE ALASKA PAGE No. 73  
 LINE No.(s) 05 PARTY No. 1195 DATE 20 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. TRAINS WEATHER: MILD - CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1			TAKE OFF TBM				506					675.9			
2															
3															
4	S	700		88 53 29				5.0		8.5	667.4		Δ		
5		✓		271 11 04				6.0		8.5			CK		
6		550		88 40 00				4.8				675.4		363	
7		0						5.0				662.4	κ	GP #3	
8		330		91 20 00				13.9				645.8		364	
9	N	1210		93 20 26				14.0		84.5		582.9	○	365	582.8
10		✓		266 36 45				13.0		84.5			CK		
11	S	1760		88 01 12				2.0		58.7	524.2		Δ		
12		✓		272 00 33				3.0		58.7			CK		
13		880		88 20 00				7.7				542.1		366	
14		0						5.0				519.2	κ	367	
15		880		92° 50 00				13.2				467.5		368	
16		1760		92° 40 00				10.9				431.3		369	
17	N	2640		92 10 16				14.0		114.2		409.9	○	370	409.7
18		✓		267 48 12				13.0		114.2			CK		
19															
20															

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### STADIA SURVEY NOTES

AREA IKPIK PUK RIVER STATE or PROVINCE ALASKA PAGE No. 74  
 LINE No.(s) 05 PARTY No. 1195 DATE 20 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINS WEATHER: MILD 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																
3	S	2750	✓						11.9	11.9	422.1		Δ			
4		✓		270 01 13					13.0	12.1			CK			
5		1870		90 30 00					12.9			392.8		371		
6		990		91 10 00					13.2			388.7		372		
7		110	✓						6.9			415.2		373		
8		0							5.0			417.1	K		GP 1	
9		770	✓						4.2			417.8		374		
10	N	880	✓	✓					6.9	-6.9		415.1	0		GP 1	414.8
11		✓		269 56 23					6.0	-6.9			CK			
12	S	2640		89 08 03					2.0	-37.8	377.5		Δ			
13		✓		270 52 57					3.0	-37.6			CK			
14		1870		89 50 00					5.7			377.2		375		
15		1320	✓				B	13.1	6.6	79.7		357.8			GP 3	
16		990		91 30 00					15.0			336.6		376		
17		110	✓						11.2			366.3		377		
18		0							5.0			372.5	K		GP 1	
19																
20																

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### STADIA SURVEY NOTES

AREA IKPIK PUK RIVER. STATE or PROVINCE ALASKA. PAGE No. 75  
 LINE No.(s) 05 PARTY No. 1195 DATE 20 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. TRAINS. WEATHER: \_\_\_\_\_ 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															
3	N 660			89 58 02				12.0		11.6		365.8	O	GP4	365.3
4	✓			270 06 48				13.0		11.7			CK		
5	S 1540			88 12 41				2.0		16.0	319.9		Δ		
6	✓			271 49 16				3.0		16.0			CK		
7	1430			88 15 26				3.0				360.3		378	
8	550 ✓							2.8				317.1		379	
9	0							5.0				314.9	κ	GP3	
10	330			91° 00 00				13.5				300.6		380	295.8
11	N 440			91° 14 36				14.0		23.5		296.3	O	GP1 (S. BANK	
12	✓			268 37 39				13.0		23.5			CK	MAIBE CREEK)	
13	S 2640			91 00 13				13.0		59.4	355.8		Δ		
14	✓			268 58 20				12.0		59.4			CK		
15	2310			91 33 47				12.0				280.6		GP*2	MAIBE CK.
16	2200			91 17 10				14.0				292.3		GP.3	
17	1870			91 30 16				14.0				292.6		381	
18	990			93 03 00				14.0				289.1		382	
19	110 ✓							13.2				342.6		383	
20															

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STADIA SURVEY NOTES

AREA IKPIK PUK RIVER STATE or PROVINCE ALASKA PAGE No. 76  
 LINE No.(s) 05 PARTY No. 1195 DATE 20 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPIRAGUE RODMAN G. PAINS. WEATHER: \_\_\_\_\_ 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															
3		0										350.8	K		GP1
4		770		86° 20' 00"								402.5		384	
5		1650		85 50 00								472.9		385	
6	N	2530		85 48 18						+182.9		538.5	O	386	537.8
7		✓		87 12 30						+182.7			CK		
8	S	770		93 01 21						+54.6	593.2		Δ		
9		✓		266 53 51						+54.6			CK		
10		0										588.2	K		GP4
11		110	✓									592.6		387	
12		990		88° 40' 00"								611.3		388	
13	N	1320		88 40 38						+22.4		615.4	O		GP2 614.6
14		✓		271 21 12						+22.3			CK		
15	S	1040	✓							+13.7	629.3		Δ		
16		✓		269 50 00						+13.8			CK		
17		480	✓									616.9		389	
18		0										624.1	O		TBM 505
19												623.3		✓	623.3
20												TIE. 0.8			

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### STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 77  
 LINE No.(s) 05 PARTY No. 1195 DATE 21 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINS WEATHER: FOG & LIGHT SNOW P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													623.3			
2																
3																
4	S	735	✓							2.1	+2.1	625.4		Δ		
5		✓		270	0353					3.0	+2.1			CK		
6		330	✓							2.7			622.7		390	
7		0								5.0			620.4			GP2
8		550	✓							7.4			618.0		391	
9	N	1100	✓							4.4	-4.4		621.0	○		GP3 621.3
10		✓		270	0154					5.0	-4.4			CK		
11	S	1100	✓				T	7.2	5.5	+1.7	+1.7	622.8		Δ		
12		✓		270	1619					7.0	+1.8			CK		
13		770	✓				T	3.4	3.9	+0.5			623.3		392	
14		0								5.0			617.8	κ		GP4
15		110	✓							6.9			615.9		393	
16		990	✓				B	11.6	4.9	16.5			606.3		394	
17	N	1870	✓							14.9	15.0		607.7	○	395	608.4
18		✓		269	5420					12.0	15.1			CK		
19																
20																

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### STADIA SURVEY NOTES

AREA IKPIKPUK RIVER. STATE or PROVINCE ALASKA PAGE No. 78  
 LINE No.(s) 05 PARTY No. 1195 DATE 21 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINS WEATHER: FOG - LIGHT SNOW 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 of Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			▲B.S. OF S. -S.S.	
1																	
2																	NB DIST 395 - 396
3	S	1430	✓				B	12.9	7.15	20.00		627.9					1760 CHANGE TO
4		✓		289	42	34				13.0							600% COVERAGE.
5		0								5.0		622.9					FOR REMAINDER LINE
6		330	✓							11.8		616.1					GP 7
7		2090		91	00'	00"				14.1		577.3					396
8	N	2860		90	26'	30"				13.0		592.6					397
9		✓		269	31'	52"				12.0							GP 4 593.9
10	S	220		93	12'	53"				14.0		618.9					
11		✓		266	30'	42"				13.0							
12		0								5.0		613.9					GP 5
13		770		89	24'	32"				2.0		624.8					398
14		1540		88	33'	35"				1.0		656.6					GP 4
15	N	2530		88	20'	21"				14.0		677.9					GP 4 679.6
16		✓		271	37'	48"				13.0							
17																	
18																	
19																	
20																	

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**STADIA SURVEY NOTES**

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 79  
 LINE No.(s) 05 PARTY No. 1195 DATE 21 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. PAINE WEATHER: FOG. LIGHT SNOW 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															
3	S	1210		92 24 16					14.0	+64.8	742.8		Δ		
4		✓		86 32 23					13.0	+64.9			OK		
5		440		93 30 30					13.0		702.9			GPA	
6		0							5.0		737.8		κ	Gp6	
7	N	420		88 58 15					4.0	+3.5	746.3		○	TBM 504	
8		✓		87 09 22					5.0	+3.5			CK.		
9											TBM 504	748.2			748.2
10												TIE	1.9		
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

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### STADIA SURVEY NOTES

AREA IKPIKPIK RIVER STATE or PROVINCE ALASKA PAGE No. 80  
 LINE No.(s) 05 PARTY No. 1195 DATE 21 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINS WEATHER: FOG - LIGHT SNOW 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			TAKE OFF			TRM	504					748.2			
2															
3															
4	S 61° 13' 40"	✓							6.8	+6.8	755.2	Δ			
5	✓		269	54	38				5.0	+7.0		CK			
6	1210	✓							13.5		741.7		400		
7	880		90	40	00				13.2		731.7			GP2	
8	0								5.0		750.2	κ		GP6	
9	N 440	✓							13.1	-13.1	742.1	○		GP8 742.0	
10	✓		269	35	24"				10.0	-13.1		CK			
11	S 2200		90	53	57				14.0	+18.6	790.9	Δ			
12	✓		269	03	31				13.0	748.8		CK			
13	2090		91	26	26"				13.0		725.3		401		
14	1980		91	46	32				15.0		714.5			GP1	
15	880		75	56	09				10.0		689.9			GP5	
16	330		94	39	41				13.0		751.1		402		
17	0								5.0		725.9	κ		GP2	
18	N 220		89	30	00				1.5	+0.4	791.3	○		GP3 791.1	
19	✓		271	08	54				4.0	+0.4		CK			
20															

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### STADIA SURVEY NOTES

AREA IKPIK PUK RIVER STATE or PROVINCE ALASKA PAGE No. 81  
 LINE No.(s) 05 PARTY No. 1195 DATE 21 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR SPRAGUE RODMAN G. FRANKS WEATHER: FOG - LIGHT SNOW - WIND - 20° P.T.S. No. \_\_\_\_\_

LINE NO.	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																
3	S	440		85 33 34					8.0	-26.1	765.3		△			
4		✓		274 33 39					9.0	-26.0			CK.			
5		0							5.0			760.3	K		GP5	
6		770		78 18 47					14.0			639.9		403		
7		1320		97 00 00					13.0			591.4			GP3	
8		1980		95 09 44					14.0			573.0			GP6	
9	N	2530		93 02 28					14.0	-148.4		616.7	O	40A		616.3
10		✓		266 55 28"					13.0	-148.6					CK.	
11	S	1760		92 29 23					14.0	+90.5	707.3		△			
12		✓		267 28 00					13.0	+90.7					CK.	
13		1210		94 15 39					13.0			604.4			GP 3	
14		0							5.0			702.3		405		
15	N	550		87 43 56					14.0	-7.8		715.1	O		GP3	714.5
16		✓		272 12 21					13.5	-7.7					CK.	
17																
18																
19																
20																

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### STADIA SURVEY NOTES

AREA IKPIKPIK RIVER STATE or PROVINCE ALASKA PAGE No. 82  
 LINE No.(s) 05 PARTY No. 1195 DATE 21 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. BAINS WEATHER: FOG LIGHT SNOW - WIND 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																
3	S	2200		86 05 26				5.0		144.9	570.4			Δ		
4		✓		87 55 26				6.0		144.7				CK		
5		1320		86 39 04				5.0				642.5				GP 6
6		990		87 21 24				5.0				611.1			406	
7		0						5.0				565.4				GP 5
8		695		90 50 00				13.1				547.2				INT LOS 68
9		670		91 20 00				14.1				540.7				SP 775 L-68
10												<del>567.9</del>				SP 775 REF: L-68
11												542.4				TIE 1.7
12																
13																
14		770		90 30 00				14.7				549.0			407	
15	N	1760		87 12 22				2.0		83.7		653.9		○		GP 5 653.0
16		✓		87 48 46				3.0		83.5				CK		
17																
18																
19																
20																

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### STADIA SURVEY NOTES

AREA IKPIKPUK RIVER. STATE or PROVINCE ALASKA. PAGE No. 83  
 LINE No.(s) 05 PARTY No. 1195 DATE 21 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPIRAGUE RODMAN G. RAINS WEATHER: FOG - SNOW - WIND 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												653.9				
2																
3	S	660		88 10 06				9.0		12.1	641.9		Δ			
4		✓		271 49 00				9.0		12.0			CK			
5		0						5.0				636.9	κ		GP 8	
6		110	✓					14.6				627.3		408		
7		660		93 22 55				13.0				590.0			GP 3	
8	N	1870		98 25 11				8.0	43.5			685.2	○	409		684.0
9		✓		271 34 10				8.0	43.3				CK			
10	S	2970		89 10 00				3.0	40.0	644.7			Δ			
11		✓		270 50 00				2.4	40.3				CK			
12		1760	✓					10.4				634.5			GP 6.	
13		1210	✓					3.0				641.9		410		
14		0						5.0				639.9	κ		GP 6	
15		550		89 00 00				3.3				651.2		411		
16		1100		87 44 44				1.0				687.2			GP 3	
17	N	1540		86 50 00				6.7	78.3			723.4	○		GP 5	721.9
18		✓		273 13 30				8.0	78.5				CK			
19																
20																

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### STADIA SURVEY NOTES

AREA KPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 84  
 LINE No.(s) 05 PARTY No. 1195 DATE 24 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. PAINS WEATHER: \_\_\_\_\_ 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															
3	S	1100		915735				14.0		51.6	774.9		Δ		
4		✓		2875956				13.0		51.5			CK		
5		330	✓					14.2				760.7		A12	
6		0						5.0				769.9	κ		GP 2
7	N	660		911412				14.0		28.3		746.7	0		GP 5 745.0
8		✓		2684115				13.0		28.2			CK		
9	S	1540		884241				3.0		31.6	715.0		Δ		
10		✓		2712220				5.0		31.7			CK		
11		770		892000				13.0				710.9		A13	
12		440	✓						2.6			714.6			GP 2
13		0						5.0				710.0	κ		GP 4
14		440		911204				14.0				691.8			GP 6
15		990	✓					1.0				714.0		A14	
16		1980		884912				1.0				754.7			GP 5
17	N	2480		883430				6.0		55.5		770.7	0	TBM 503	
18		✓		2712439				5.0		55.7			CK		
19												768.7		TBM 503	768.7
20												TIE.	2.0		

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### STADIA SURVEY NOTES

AREA N.P.R. #4 STATE or PROVINCE ARIZONA PAGE No. 85  
 LINE No.(s) 05 PARTY No. 1195 DATE 25 Day FEB Mo. 1977 Yr. BOOK No. 4  
 SURVEYOR R. DESJARDIS RODMAN G. Bains WEATHER: Sold Clear P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1			<u>TELESCOPIC FROM</u>			<u>T.O.M</u>	<u>503</u>					<u>708.7</u>			
2															
3															
4		<u>2560</u>		<u>88°45'00"</u>					<u>5°</u>			<u>712.9</u>		<u>Δ</u>	
5		<u>✓</u>		<u>88°22'01"</u>					<u>10°</u>					<u>✓</u>	
6		<u>2310</u>		<u>88°40'</u>					<u>2'</u>			<u>769.4</u>			<u>SP 415</u>
7		<u>1540</u>		<u>89°00'</u>					<u>6.3</u>			<u>738.4</u>			<u>4 -415</u>
8	<u>S</u>	<u>550</u>		<u>89°00'</u>					<u>2.4</u>			<u>725.1</u>			<u>SP 416</u>
9		<u>0</u>							<u>5°</u>			<u>712.9</u>			<u>3 -416</u>
10	<u>N</u>	<u>880</u>		<u>92°10'</u>					<u>13.1</u>	<u>-46.4</u>		<u>671.5</u>	<u>○</u>	<u>7</u>	<u>-416 671.1</u>
11		<u>✓</u>		<u>267°38'00"</u>					<u>10°</u>	<u>-46.4</u>				<u>✓</u>	
12															
13		<u>2090</u>		<u>87°22'21"</u>					<u>5°</u>	<u>+90.7</u>		<u>580.7</u>		<u>Δ</u>	
14		<u>✓</u>		<u>77°46'10"</u>					<u>10°</u>	<u>+90.8</u>				<u>✓</u>	
15		<u>1760</u>		<u>87°40'</u>					<u>2.6</u>			<u>649.7</u>			<u>SP 417</u>
16	<u>S</u>	<u>1210</u>		<u>88°28'33"</u>					<u>15°</u>			<u>597.9</u>			<u>5 -417</u>
17		<u>0</u>							<u>5°</u>			<u>575.7</u>			<u>SP 418</u>
18	<u>N</u>	<u>770</u>		<u>93°10'</u>					<u>14.4</u>			<u>523.8</u>			<u>4 -418</u>
19		<u>1760</u>		<u>96°40'</u>					<u>13.8</u>			<u>546.4</u>			<u>SP 419</u>
20															

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### STADIA SURVEY NOTES

AREA N.P.R #4 STATE or PROVINCE ALABAMA PAGE No. 86  
 LINE No.(s) 05 PARTY No. 1195 DATE 26 Day FEB Mo. 1977 Yr. BOOK No. 4  
 SURVEYOR P. DESTAFLOIS RODMAN C. Rains WEATHER: Cold 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		2090		90°50'					149	-454		535.5	0	3	-419	534.7
3		✓		269°02'20"					100	-453			✓			
4																
5		3190		91°13'39"					140	+025	610°		Δ			
6		✓		268°42'09"					100	+025			✓			
7		2520		92°40'					122			488.4		5	419	
8	S	1760		95°40'					117			493.4		SP	420	
9		0							50			613.0		SP	421	
10	N	1430		86°50'06"					105	+08.4		686.4	0	7	-421	685.1
11		✓		273°15'59"					130	+68.4			✓			
12																
13		2420		89°13'01"					60	-270	659.4		Δ			
14		✓		270°52'42"					100	-720			✓			
15		2090		89°10'					35			686.2		SP	422	
16	S	330							75			651.9		SP	423	
17		0							50			654.4		2	-423	
18	N	1430								-18.4		640.8		SP	424	
19		1740								-20.5		639.0				TBM 502
20		✓		269°48'					101	-20.4		637.2	0			637.2

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Tie 1.8 High.

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

*[Signature]*



### STADIA SURVEY NOTES

AREA N.P.E. #4 STATE or PROVINCE ALASKA PAGE No. 87  
 LINE No.(s) 05 PARTY No. 1125 DATE 25 Day FEB Mo. 1977 Yr. BOOK No. 4  
 SURVEYOR C. DESTARIS RODMAN G. Gains WEATHER: Cold clear P.T.S. No. \_\_\_\_\_

L I N E	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			<u>TAXI OFF FROM T.B.M 50B</u>									<u>437.2</u>				
2																
3																
4	<u>S</u>	<u>1440</u>		<u>87°25'18"</u>					<u>5°</u>	<u>-59.7</u>		<u>577.4</u>		<u>Δ</u>		
5		<u>v</u>		<u>87°46'05"</u>					<u>10°</u>	<u>-59.4</u>				<u>✓</u>		
6		<u>0</u>							<u>5°</u>			<u>572.4</u>			<u>425</u>	
7	<u>-</u>	<u>1420</u>		<u>90°30'</u>					<u>12'</u>	<u>-24.4</u>		<u>552.8</u>		<u>⊙</u>	<u>425-7</u>	<u>552.9</u>
8		<u>v</u>		<u>89°24'05"</u>					<u>10°</u>	<u>-24.8</u>				<u>✓</u>		
9																
10		<u>2090</u>		<u>88°13'22'</u>					<u>5°</u>	<u>-59.7</u>		<u>493.2</u>		<u>Δ</u>		
11		<u>v</u>		<u>87°54'28"</u>					<u>10°</u>	<u>-59.6</u>				<u>✓</u>		
12	<u>S</u>	<u>1760</u>		<u>88°20'</u>					<u>42</u>			<u>540.1</u>			<u>426</u>	
13		<u>0</u>							<u>5°</u>			<u>488.2</u>			<u>427</u>	
14	<u>N</u>	<u>1760</u>							<u>11.7</u>			<u>481.5</u>			<u>428</u>	
15		<u>3520</u>							<u>25</u>			<u>470.3</u>		<u>⊙</u>	<u>429</u>	<u>490.6</u>
16		<u>v</u>		<u>270°02'08"</u>					<u>5°</u>					<u>✓</u>		
17																
18	<u>S</u>	<u>1430</u>		<u>89°16'03'</u>					<u>10°</u>			<u>482.1</u>		<u>Δ</u>		
19		<u>v</u>		<u>270°50'53"</u>					<u>13°</u>					<u>✓</u>		
20		<u>0</u>							<u>5°</u>			<u>477.1</u>		<u>Δ</u>	<u>4</u>	<u>429</u>

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### STADIA SURVEY NOTES

AREA N.P.R. #4 STATE or PROVINCE ALASKA PAGE No. 88  
 LINE No.(s) 05 PARTY No. 1193 DATE 25 Day Feb Mo. 1977 Yr. BOOK No. 7  
 SURVEYOR P. DeStarris RODMAN E. Gains WEATHER: Cold 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												482.1				
2	N	330										468.4		430		
3		2090		91° 25'								417.1	0	431		417.5
4		✓		768° 29' 49'									✓			
5																
6		3520		89° 16' 22'								377.8				
7		✓		270° 48' 32'									✓			
8	B	1760					T	78	+8.8			378.8		432		
9		0										372.8		433		
10	N	550		91° 20'								350.0		433-3		
11		1760		89° 37' 36'								380.2	0	434		380.8
12		✓		270° 30' 32'									✓			
13																
14	S	1760		91° 00'								422.8				
15		✓		288° 56' 36'									✓			
16		0														
17		635		90° 40'								417.8		435 L.S.P.		
18		✓		268° 57' 47'								401.3	0	TBM 501		402.0
19												402.0	✓			
20												Tie	0.7	Low		

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### STADIA SURVEY NOTES

AREA N.A.P. 44 STATE or PROVINCE Alaska PAGE No. 29  
 LINE No.(s) 05 PARTY No. 1193 DATE 25 Day FEB Mo. 1927 Yr. BOOK No. 1  
 SURVEYOR L. DESTARDAIS RODMAN G. Rain WEATHER: Cold Clear P.T.S. No.     

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER		ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1														
2		1540		90°34'00"							475.0			
3	S	880		91°10'							449.1		4	TS
4		0									470.0		8	TS
5	N	880									466.4		12	TS
6		1100									464.7	0	13	TS
7														
8		2200									473.4	0		
9		1540		90°30'							445.4		16	TS
10	S	660		90°30'							452.8		20	TS
11		0									468.4		23	TS
12	N	220									461.0		24	TS
13		1100		92°10'							416.9		28	TS
14		1980		92°00'							390.4		32	TS
15		2760		91°30'							389.7	0	36	TS
16														
17		1980		90°30'							421.7	0		
18	S	1100		91°00'							389.3		40	
19		0									416.7		45	
20	N	660									404.7	0	48	

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