

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 1  
 LINE No.(s) 43 PARTY No. 1184 DATE 7 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: SUNNY 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			AB.S. OF S. - S.S.
1																
2																
3																
4																
5	N	2640	✓				T	4.6	13.2		-8.6					
6	R.		✓				T	3.9	13.2		-9.3					
7		1320	✓								6.1					
8		0									5.2					
9		1320	✓								5.5					
10	S	2640	✓								6.5					
11		R.									6.1					
12	N	2475		90° 30						+21.6	+131.9	123.7				
13	R.			269 30						+20.1	+21.6					
14		1320		91 35						0.0	36.5	36.5		86.7		#4 E.S.
15		0								5.5	5.5			117.7		SP #1 GROUND
16																+1.5 +2.6 ABOVE
17		1320		90° 03 24						4.0	7.3	5.3		117.9		SP #2 GROUND
18	S	2145	✓							12.0	-11.9			112.5		GROUP
19		R	✓							-11.7						
20																

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 FROM PAGE 25

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STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE ALASKA PAGE No. 3  
 LINE No.(s) A3 PARTY No. 1184 DATE 7 Day 5 Mo. 15 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: \_\_\_\_\_ 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.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1												92.2				
2																
3	N	990		90 30	0° 50'	HR	+13.8	+8.9	22.7	+8.6	+31.3	123.5	Δ			
4		R		269 30	0° 50'	HR	+13.7	+8.9	22.6	+8.6			R			
5																
6		0							5.6	-5.6			X			
7																
8		330	✓						9.3	-9.3		114.2		SP 8		
9																
10		1650	✓			B	12.5	R.3	20.8	-20.8		102.7		SP 9		
11																
12	S	2970	✓			B	3.2	14.9	17.1	-17.0		102.5	Q	SP 10		
13		R	✓			B	2.0	14.9	16.9				R			
14																
15	N	3060		90 18 41	0° 18 41'				+6.0	+16.6	+22.4	123.9	Δ			
16		R		300 18 16	0° 18 14'				+6.0	16.2			R			
17																
18		1740		90 55 06	0° 52 20'				-4.0	-16.4	-20.4	108.5		SP 11		
19																
20		420		91 16 39	1° 16 32'				-4.0	-9.3	-13.3	119.3		SP 12		

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WATER MARKER BACK

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 2  
 LINE No.(s) 43 PARTY No. 1184 DATE 7 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: \_\_\_\_\_ 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												(11.)				
3	N	3135		89°54' 2" 11 14"				+4.0	-13.0	-9.0	103.2		Δ			ADJ. INST.
4		R		87°14' 36" 04 35"				+4.0	-13.0				R			
5																
6		2640		89°59' 25" 00 34"				-4.0	0.4	-3.6		98.6				3
7												93.7				
8		1320		90°13' 0" 137"				-4.0	-4.5	-8.5						SP 4
9												96.6				
10		0												*		SP 5
11																
12		1320		90°21' 50" 81 15"				-4.0	-8.0	-12.2		90.0				SP 6
13																
14	S	2640		90°07' 55" 0 07 52"				-4.0	-6.0	-10.0		92.0	0			SP 7
15		R		88°58' 07" 0 07 53"				+4.0	-6.1				R			
16																
17																
18																
19																
20																

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**STABIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 4  
 LINE No.(s) 43 PARTY No. 1184 DATE 7 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: \_\_\_\_\_ 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												128.9				
2																
3		0											123.2	X		NE-445
4																
5		900	✓										120.9			SP 13
6																
7	B	2220	✓			B	6.4	11.1					112.6	0		SP 14
8		R	✓			B	6.0	11.1						R		
9																
10	N	2640		89.26.50	0.35.14											
11		R		27.02.12	0.33.46											
12																
13		1320		89.38	0.22											
14																
15		0														
16																
17		1320	✓													
18																
19	S	23.12	✓													
20		R	✓													

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 5  
 LINE No.(s) 43 PARTY No. 1184 DATE 7 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND 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	Correction			Center Hair	INST.		
1											83.1			
2														
3	N	2960		90°21'58"	0°21'58"			+6.0	+18.9	+24.8	109.9		Δ	
4		R		262°38'23"	2°21'37"			+6.0	+18.6				R.	
5														
6		1640		90°43'00"	0°43'			-4.0	-20.5	-24.5	83.4		SP 19	
7														
8		320		90°16'52"	2°16'52"			-4.0	-12.7	-16.7	91.2		SP 20	
9														
10		0						5.9		5.9	102.0	K	N3-446	
11														
12		1000		90°46'54"	0°46'54"			-4.0	-13.6	-17.6	90.3		SP 21	
13														
14	S	2320		90°15'10"	0°15'10"			-4.0	-70.2	-74.2	93.7		SP 22	
15		R		269°45'00"	0°15'00"			-4.0	-10.1				R.	
16														
17	N	1815		91°10'00"	1°10'			+13.1	+37.0	+50.0	143.7		Δ	
18		R		268°50'	1°10'			+13.0	+37.0				R.	
19														
20		49.5		91°50'30"	1°50'30"			-4.0	-15.9	-19.9	123.8		SP 23	

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**STADIA SURVEY NOTES**

AREA NPR 4 STATE or PROVINCE ALASKA PAGE No. 6  
 LINE No.(s) 43 PARTY No. 1184 DATE 7 Day 5 Mo 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND 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												149.7			
2															
3		825		89°20'25"	+0°32'36"			-4.0	+9.5	+5.5		149.2		SP 24	
4															
5	S	990		89°15'52"	+0°44'08"			-5.0	+12.7	+7.0		151.5	O		ND-447
6	R			270°44'56"	+0°44'56"			-5.0	+12.9				R		
7															
8		0						5.6		+5.6		158.1	Δ		
9															
10		1155		90°15'58"	+0°15'58"			-4.0	+5.4	-9.4		147.7		SP 25	
11															
12	S	2475		90°08'14"	+0°08'14"			-4.0	+5.9	-9.0		149.3	O	SP 26	
13	R			269°52'00"	+0°08'00"			-4.0	+5.8				R		
14															
15	N	2920		89°20'	+0°40'			+8.0	+34.0	+26.2		121.4	Δ		
16	R			273°40'	+0°40'			+7.6	+34.0				R		
17															
18		1600		89°22'	+0°38'			-4.0	+17.7	+13.7		124.8		SP 27	
19															
20		285		90°04'	+0°04'			-4.0	+0.3	-4.3		116.0		SP 28	

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### STADIA SURVEY NOTES

AREA NPR-A STATE or PROVINCE ALASKA PAGE No. 7  
 LINE No.(s) 43 PARTY No. 118A DATE 7 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND. WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		0							5.5		-5.5			X		
2																
3		1035		90° 38'	0° 38'				-4.0	11.4	75.4		105.7		SP 29	
4																
5	S	2355		90° 07' 21"	0° 07' 21"				-4.0	5.0	8.8		112.3	Q	SP 30	
6		R		269° 53' 24"	0° 06' 33"				-4.0	4.5				R		
7																
8	N	2305		90° 40'	0° 40'				+14.1	+32.6	+46.5	158.8		Δ		
9		R		269° 20'	0° 40'				+13.7	+32.6				R		
10																
11		1435		91° 24' 40"	1° 24' 46"				-4.0	36.6	40.6		118.2		SP 31	
12																
13		125		90° 51' 30"	0° 31' 30"				-4.0	7.3	11.3		127.5		SP 32	
14																
15		0							5.5		5.5		153.3	X	GROUP	
16																
17		1155		90° 10' 45"	0° 12' 45"				-4.0	4.3	8.3		150.5		SP 33	
18																
19	S	1650		89° 41' 54"	0° 18' 00"				-5.0	+8.7	+3.8		162.6	Q	N2-448	
20		R		270° 18' 39"	0° 18' 39"				-5.0	+9.0				R		

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 8  
 LINE No.(s) 43 PARTY No. 1184 DATE 7 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND. WEATHER: \_\_\_\_\_ 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											162.6				
2															
3		0							+5.6	168.2		△			
4															
5		835		263°37'44"	0°22'16"			-4.0	5.3	9.3		158.9		SP 34	
6															
7	S	1145		90°20'08"	0°20'28"			-4.0	12.8	16.5		151.7	0	SP 35	
8		R		26°41'20"	0°19'37"			-4.0	12.2				R		
9															
10	N	3135		90°00'41"	0°00'41"			+4.0	0.6	4.3	156.0		△		
11		R		27°00'07"	0°00'07"			+4.0	0.1				R		
12															
13		1815		231°52'25"	0°15'25"			-4.0	8.1	12.1		143.9		SP 36	
14															
15		495		91°09'00"	1°29'00"			-4.0	9.9	13.9		142.1		SP 37	
16															
17		0								5.7		150.3	X	GROUP	
18															
19															
20															

WATER WORKS ONLY

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 9  
 LINE No.(s) 43 PARTY No. 118A DATE 7 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: \_\_\_\_\_ 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												156.0				
2																
3	S	820	✓			B	10.9	4.1	15.0		-14.9	146.0	○	SP 38		
4		R	✓			B	10.7	4.1	14.8				R			
5																
6	N	2640		87°45'30"	0°15'30"				+4.0	-11.9	-7.3	134.83	△			
7		R		270°14'58"	0°14'58"				+4.0	-11.5			R			
8																
9		1320		92°09'17"	0°09'17"				-4.0	-3.6	-7.6			SP 39		
10		R		271°50'16"												
11		O							5.4		-5.9	128.4		SP 40		
12																
13	S	1825		88°50'45"	1°02'15"				6.0	+36.8	+30.3	164.7	○			
14	S	R		281°09'52"	1°09'52"				6.0	+37.1			K			
15																
16		O							+5.5		75.5	170.2	△			
17																
18	N	505		91°31'45"	7°31'45"				-4.0	-13.5	77.5	152.7		SP 41		
19																
20																

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**STADIA SURVEY NOTE**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 10  
 LINE No.(s) 43 PARTY No. 1184 DATE 7 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		# OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1												170.2				
2																
3	S	8.15	✓						-10.3	-10.3		159.9	○	SP	42	NOTES WORKED BACK
4																
5	N.	14.85	✓			T	9.6	7.4	+2.2	+2.1	162.6		△			
6		R				T	9.3	7.4	-1.9					R		
7																
8		16.5	✓						-4.9	-4.9		157.1			43	
9																
10		0							5.5	-5.5		151.5	π			
11						R										
12	S	8.00				B	11.4	4.0	-15.4	-15.4		142.4	○			
13		R				B	11.3	4.0	-15.3					R		
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR - 4 STATE or PROVINCE ALASKA PAGE No. 11  
 LINE No.(s) 43 PARTY No. 1184 DATE 8 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND 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.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1													146.6				
2																	
3	N	2995	✓			T	9.6	15.0	-6.4	-5.2	141.4			Δ			
4		R	✓			T	9.0	15.0	-5.0					R			
5																	
6		2640	✓						5.9	-5.9			135.5		SP	44	
7																	
8		1320	✓			B	14.9	6.6	21.5	-21.5			119.9		SP	45	
9																	
10		0							5.2	-5.2			136.2		SP	46	
11																	
12		1320	✓						-6.3	-6.3			135.7		SP	47	
13																	
14	S	2640	✓						-8.7	-8.5			133.9	0	SP	48	
15		R	✓						-8.2					R			
16																	
17																	
18																	
19																	
20																	

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71-5000

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 12  
 LINE No. (a) 23 PARTY No. 1184 DATE 8 Day 5 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR SPRAGUE RODMAN LUND 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.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD				
1												132.9					
2																	
3	N	1320		90° 55'	0° 05'			+4.0	+2.3	+6.1		139.6		Δ		NOTES WALKED BACK	
4		R.		26° 55'	0° 04.5'			+4.0	+1.9					R			
5																	
6		0						-6.0		-6.0		133.0		K	SP 49		
7																	
8	S	1320	✓					12.7		12.8		126.4		Q	SP 50		
9		R	✓					12.4						R			
10																	
11	N	1150		91° 02'	1° 02'			+4.0	+20.7	+34.7		161.6		Δ			
12		R		26° 55'	1° 02'			+4.0	+20.3					R			
13																	
14		0						5.8		5.8				K	GROUP.		
15																	
16		165	✓					4.5		4.5		156.6		SA	51		
17																	
18	S	648		87° 32'	0° 27'			5.0	+5.2	+0.3		161.4		⊙	TP		
19		R		27° 24'	0° 26.4'			5.0	+5.4					R			
20																	

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 13  
 LINE No.(s) 43 PARTY No. 184 DATE 8 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND. 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													161.9			
2																
3	N	1992		88 40 53	+1° 14' 07"				+5.0	-45.8	-41.1	120.8		Δ		
4		R		271 19 52	-7° 19' 59"				+6.0	-46.3				R		
5																
6		1820		90 06 20	0° 06' 20"				-4.0	-2.4	-6.4		113.9		SP 52	
7																
8		0							-6.0				114.3	K	SP 53	
9																
10		1320		90 05 22	0° 05' 22"				-4.0	-2.1	-6.1		114.2		SP 54	
11																
12	S	2640		90 05 03	0° 05' 03"				-4.0	-2.3	-7.0		113.8	Q	SP 55	
13		R		263 55 10	0° 04' 41"				-4.0	-3.6				R		
14																
15	N	2010		91 51 25	+1° 51' 25"				+4.0	+48.6	+72.6	185.9		Δ		
16		R		268 02 40	+1° 51' 20"				+4.0	+48.6				R		
17																
18		690		94° 02'	+4° 02'				-13.9	-48.5	-62.4		123.5		SP 56	
19																
20		0							-5.3		-3.9			K		

NOTES WORKED BACK

71-0008

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 15  
 LINE No.(s) 43 PARTY No. 1184 DATE 8 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR J. SPRAGUE RODMAN 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	Correction	Center Hair			INST.	ROD		
1												186.9			
2															
3	S	640	87 44.56"	2° 15' 01"				70.0	+25.1	+15.2		201.6	O	SP 57	N2442
4		R	87 16.07"	2° 16' 07"				70.0	+25.3				R		
5															
6	N	2640	89 03.09"	2° 34' 51"				+5.0	+42.1	37.4	163.2		Δ		
7		R	87 35.36"	2° 58' 36"				+5.0	+42.7				R		
8															
9		1320	89 53.91"	2° 01' 19"				-4.0	+11.7	-2.3		161.4		SP 58	
10															
11		0						3.7		5.7		158.0	K	SP 59	
12		1320	88 42.11"	1° 17' 49"				70.0	+29.3	+17.3		181.6		SP 60	(209.1)
13	S	1435	88 42.43"	1° 17' 17"				70.0	+33.4	+23.6		187.3	O		GROUP
14		R	87 17.59"	1° 17' 32"				70.0	+33.7				R		
15															
16		2475	89 45.91"	2° 14' 15"				+4.0	-10.3	-6.6	180.2		Δ		
17		R	87 13.07"	2° 15' 01"				+4.0	-10.5				R		
18															
19		1320	89 48.50"	2° 18' 10"				-4.0	+4.3	+0.7		181.4		SP 61	
20															

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**STADIA SURVEY NOTES**

AREA NPR - A STATE or PROVINCE ALASKA PAGE No. 16  
 LINE No.(s) 43 PARTY No. 1184 DATE 8 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1												180.7					
2																	
3		0										5.7	5.7	175.0	X	SP 62	
4																	
5		1380		89°47'42"	0°12'10"							-4.0	+4.7	+0.7		181.4	SP 63
6																	
7	S	2640		89°56'40"	0°03'20"							-6.0	+25.6	+20.0		200.7	O SP 64
8	R			87°34'16"	0°34'16"							-6.0	+21.3				R
9																	
10	N	1060		91°02'40"	1°02'40"							+10.0	+19.3	+29.2	839.4		Δ
11	R			86°58'10"	1°01'50"							+10.0	+12.1				R
12																	
13		0															
14												5.5					X SP 65
15		255										-8.1				221.8	SP 65
16																	HR-450
17	S	1575		90°42'20"	0°42'20"							-6.0	+19.4	+25.2		204.7	O SP 66
18	R			86°18'19"	0°41'41"							-6.0	+19.1				R
19																	
20																	

WATER WORKED BRACKS

TI-6000

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 17  
 LINE No.(s) 43 PARTY No. 1184 DATE 8 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND 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													204.7			
3	N	2145		28 5728	1° 02' 32"				4.0	-39.0	-35.8	169.8		Δ		
4		R		271 0321	1° 02' 21"				4.0	-39.5				R		
5																
6		825		2705017	0° 50' 17"				4.0	+12.1	+8.1		177.5		SP 67	
7																
8		0							5.5		3.5		163.9	K		GROUP
9															SP 68	
10		495		224127	2° 41' 27"				14.0	-23.2	-37.2		192.2		SP 68	
11																
12	S	1815		20 05 63	0° 05' 33"				4.0	-3.2	-6.9		162.5	0	SP 69	
13		R		262 55 15	0° 01' 35"				4.0	-2.5				R		
14																
15	N	1815		30 20'	0° 20'				13.5	+10.6	+24.0	186.6		Δ		
16		R		269 40'	0° 20'				13.2	+10.6				R		
17																
18		495	✓						13.3		13.3		173.2		SP 70	
19																
20		0							5.5		5.5			K		

NOTES: WOODS BENCH

TI-5000

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 18  
 LINE No.(s) 43 PARTY No. 1184 DATE 8 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND 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.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												186.6				
2																
3		825		90° 14' 48"	0° 14' 48"				-4.0	-3.6	-7.6		178.9		SP 71	
4																
5	S	1320	✓						-12.8		711.9		179.4	O	GROUP	
6		R	✓						-11.7					R		
7																
8	N	2785		90° 10' 13"	0° 10' 13"				+4.0	+8.3	+12.0	186.6		Δ		
9		R		262° 50' 33"	0° 09' 27"				+4.0	+7.7				R		
10																
11		1960		262° 16' 27"	0° 45' 33" HR		-8.9	15°	-27.9	24.8	52.7		193.9		SP 72	
12																
13		640		90° 15' 47"	0° 45' 47"				-4.0	-8.3	-12.5		178.1		SP 73	
14																
15		0							5.6		5.6		181.0	K	T.P.	
16																
17	S	680		90° 23' 08"	0° 23' 08"				14.0	-4.5	-18.5		168.5	O	SP 74	
18		R		262° 37' 40"	0° 22' 20"				14.0	-4.4				R		
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 19  
 LINE No.(s) 43 PARTY No. 1184 DATE 8 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND 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.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													168.5			
2																
3	N	2145		270 19 00	0° 19' 00"				+4.0	-11.9	-7.6	160.3		Δ		
4		R		32 41 59	0° 19' 00"				+4.0	-11.7				R		
5																
6		625		90 48 44	0° 48' 44"				-4.0	-11.7	-15.7	144.8			SP 75	
7																
8		0							-5.8		-5.8	154.7		X	GROUP.	
9																
10		495		90 32 56	0° 32' 56"				-4.0	-22.0	-26.0	134.3			SP 76	
11																
12	S	1815		90 00 59	0° 00' 59"				+4.0	-0.3	-4.3	156.2		Q	SP 77	
13		R	X	262 57 34	0° 26' 00"				-4.0	-0.8				R		
14																
15	N	1080		90 36 57	0° 36' 57"				+14.0	+11.6	+25.5	181.7		Δ		
16		R		262 23 39	0° 34' 23"				+14.0	+11.4				R		
17																
18		0							5.7		5.7			X		
19																
20																

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STADIA SURVEY NOTE

AREA NPR - 4 STATE or PROVINCE ALASKA PAGE No. 20  
 LINE No.(s) 43 PARTY No. 1184 DATE 8 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND 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	Correction	Center Hair			INST.	ROD			
1												181.7				
2																
3	S	240		91°22'27"	1°22'27"				-4.0	-5.8	-9.8		172.0	O	SP 78	
4		R		268°38'34"	1°21'26"				-4.0	-5.7				R		
5																
6	N	1155		91°18'50"	1°18'50"				+4.0	+26.5	+30.4	202.9		Δ		
7		R		268°42'06"	1°17'54"				+4.0	+26.2				R		
8																
9		O												X	GROUP.	
10																
11		165		92°51'35"	2°51'35"				-4.0	7.2	72.2		120.2		SP 79	
12																
13	S	1485		89°48'36"	0°11'24"				-4.0	+4.9	+1.1		203.5	O	SP 80	
14		R		270°12'18"	0°12'18"				-4.0	+5.3				R		
15																
16	N	2365		90°30'00"	1°30'00"				+4.0	+20.6	+24.4	227.9		Δ		
17		R		269°30'48"	0°29'12"				+4.0	+20.1				R		
18																
19		1045		91°52'33"	1°52'33"				-4.0	-34.0	-38.0		189.7		SP 81	
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 21  
 LINE No.(s) 43 PARTY No. 1184 DATE 9 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: FOG!!!! MORE 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	Correc-tion	Center Hair			INST.	ROD			
1												227.9				
2																
3																
4		0											222.2	X		NE-451
5																
6		275		9139'16"	7.99'16"								205.0			SP 82
7																
8	S	780	✓			B	12.0	3.9					214.9	0		GROUP.
9		R	✓			B	11.9	3.9						R		
10																
11	N	580		82°45'33"	0.1427								213.8			Δ
12		R		87°15'14"	0.1514											R
13																
14		0														
15																
16		235		95°01'10"	5.01'10"								190.9			SP 83
17																
18	S	1555		91°22'03"	1.22.03								172.6			SP 84
19		R		268°38'52"	7.01.00											
20																

WATER MARKED BRK

71-5588

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 22  
 LINE No.(s) 43 PARTY No. 1184 DATE 9 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: FOG P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		M.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1																
2												172.8				
3	N	2640		90°32'05"	0°32'05"			+4.0	+24.6	+28.3	200.9		Δ			
4		R		267°29'48"	0°31'18"			+4.0	+24.0					R		
5																
6		1320		91°01'16"	1°01'16"			-4.0	-23.5	-27.5		173.4		SP	85	
7																
8		0						5.7		-5.7		195.2	X	SP	86	
9																
10	S	1320		89°00'37"	0°51'32"			-4.0	+22.8	+19.0		219.8	Q	SP	87	
11		R		271°00'10"	1°00'10"			+4.0	+23.1					R	SP	87
12																
13	N	3145		90°27'12"	0°27'12"			+4.0	+17.0	+20.5	240.4		Δ			
14		R		269°34'11"	0°25'49"			+4.0	+16.1					R		
15																
16		825		90°42'54"	0°42'54"			-4.0	-11.0	-15.0		225.4		SP	88	
17																
18		0						5.9		-5.9		234.5				GROUP.
19																
20		495		91°16'29"	1°16'29"			-4.0	-11.0	-15.0		225.4		SP	89	

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 23  
 LINE No.(s) 43 PARTY No. 118A DATE 9 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: FOG. P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		M.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												240.4				
2																
3	S	1815	90 04.38	0° 04.38				-6.0	-2.4	-8.2		232.2	0	SP 90		ALTA'S WOODS BACK
4		R	269 56.29	2 05.51				-6.0	-1.9				R			
5																
6	N	1815	89 49.39	0 10.21				+4.0	-5.5	-1.7	250.5		Δ			
7		R	270 11.14	2 11.14				+4.0	-5.9				R			
8																
9		495	90 13.16	0 13.16				-4.0	-1.9	-3.9		224.6		SP 91		
10																
11		0														
12																
13		825	90 28.45	0 28.45				-4.0	-1.9	-10.9		219.6		SP 92		
14																
15	S	2145	88 56.13	1 03.42				-4.0	+39.8	+36.0		266.5	0	SP 93		
16		R	271 04.19	1 04.19				-4.0	+40.1				R			
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 24  
 LINE No.(s) 43 PARTY No. 1184 DATE 9 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND 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.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																
5																
6	W	2310	✓	90°00'		T	6.4	11.05	-4.7		-4.9	290.1		△		GROUND ELE.
7		R		270°00'		T	5.9	11.05	-5.2					R		
8																
9		O												X		
10																
11	E	1180	✓	90°00'					-13.8		-13.7	276.4		O		TIP. N2-452
12		R	✓	270°00'					-13.6					R		(SP 13+425)
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 25  
 LINE No.(s) 43 PARTY No. 1184 DATE 9 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: FOG P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	SEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1												266.5				
2																
3	N	49.5	9120.35	1°20.35'				+4.0	+11.6	+15.6	282.1		Δ	SP	93	Notes checked D.M.C.
4		R	268.42.20	1°22.49'				+4.0	+11.6				R			
5																
6		0						-5.7		-5.7		276.4	X			42-452
7																
8	S	82.5	90.50	0°30'				-10.8	-12.0	-22.6		259.5	○	SP	94	
9		R	269.10	0°30'				-10.8	-12.0				R			
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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 STA. KRISTY  
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 24.



**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 26  
 LINE No.(s) 43 PARTY No. 1184 DATE 10 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: WINDY P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1																
2																
3												259.5				
4	N	495		89 03 42					+4.0	-4.1	255.4		Δ			
5		R		87 05 26					+4.0				R			
6																
7		0							-5.7	-5.7	249.7		X			GROUP
8																
9		825		92 01 54					-4.0	-38.0	217.4			SP	95	
10																
11		2145		70 42 41					-4.0	-34.4	221.0			SP	96	
12																
13	S	2640		90 34 42					-5.0	-31.5	223.9		O	H2	-453	
14		R		269 25 36					-5.0				R			
15																
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 27  
 LINE No.(s) 43 PARTY No. 1184 DATE 10 Day S Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: WINDY P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distances	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD		
1															
2															
3	S	2640													HE-
4	R											223.9	R		
5															
6	N	225		89°38.09							-0.3	223.6		Δ	
7	R			87° 22.18							-5.1			R	
8															
9		0													
10															
11	S	1320		91°26.38											
12	R			218 05 50											
13															
14	N	1815		92°21.2											
15	R			26757.18											
16															
17		495		94° 05											
18															
19		0													
20															

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GROUP

**STADIA SURVEY NOTES**

AREA NPR - A STATE or PROVINCE ALASKA PAGE No. 28  
 LINE No.(s) 43 PARTY No. 1184 DATE 10 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: WINDY 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	Correction	Center Hair			INST.	ROD			
1												255.0				
2		825		88°03'					-4.0	+24.1		279.1		SP	100	
3																
4	S	990		88°34'					-6.0	+33.5	+28.5	283.5	O			N2-454
5		R		2715641					-5.0	+33.6			R			
6																
7	N	330		90 31 49					+3.0	+3.1	+8.0	291.5	A			TO BE RERUN
8		R		267 23 33					+5.0	+3.0			R			
9																
10		0							5.9		-5.9		X			GRIP
11																
12	S	885		92 12 50					-4.0	-31.9	-35.0	255.9	O	SP	101	
13		R		267 47 31					-4.0	-31.8			R			
14																
15	N	2110		89 50 00					+14.0	-6.1	-7.9	247.8	A			
16		R		272 02 43					74.0	-6.0						
17																
18		825		90 34 14					74.0		-22.2				SP	102
19																
20		0							-6.0		-6.0					GROUP

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 29  
 LINE No.(s) 43 PARTY No. 1184 DATE 10 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: FGS WIND 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	Correction	Center Hair			INST.	ROD			
1												247.8				TO BE REUN.
2		495		90.5747					-4.0		-12.3				SP	103
3		<del>49</del>														
4	S	1815		90.1746					-4.0	-10.4	-14.5		233.3	○	SP	104
5		R.		869.4003					-4.0	-10.5				○		
6																
7	N	1295		89.3413					+6.0	-9.7	-3.0		229.5	△		
8		R		270.25.89					+6.0	-9.8				R		
9																
10		0							6.0		-6.0			X	SP	105
11																
12	S	1345		90.0611					-4.0	-2.4	-6.4		223.1	○	SP	106
13		R		249.50.58					-4.0	-2.4				R		
14																
15	N	2640		91.1412	7.412				+4.0	+57.0	-160.6		203.7	△		
16		R		268.46.51	7.412				+4.0	56.2				R		
17																
18		1320		92.2733	2.2733				-4.0	36.6	-60.6				SP	107
19																
20																

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STATION SURVEY NOTE

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 30  
 LINE No.(s) 43 PARTY No. 1184 DATE 10 Day 5 Mo 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND. WEATHER: FOG - WIND. 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																TO BE RECAL.
2	S	495		89 26 28	0 35 35				-4.0	4.8	+0.9		357.6	O		GROUP.
3	R			270 34 38	0 34 38				-4.0	15.0				R		
4																
5	N	825		88 00 30	0 59 24				+4.0	28.7	-24.8			A		
6	R			272 00 35	0 00 35				+4.0	28.9				R		
7																
8	O								-5.5		5.5			X	SP 109	
9																
10		1320		89 42 46	0 17 14				-4.0	76.6	+2.6				SP 110	
11																
12	S	2640		88 50 48	0 23 20				-4.0	+68.6	+65.2		325.0	O	SP 111	←
13	R			271 51 08	1 21 03				-4.0	+67.9				R		
14												338.4				
15	N	830		90 18 57	0 18 51				+9.0	+4.6	+13.4	353.3		Δ		
16	O			269 48 16	0 17 44				+9.0	+4.3				R		
17																
18		330		89 57 10	0 02 50				-5.0	+0.3	-4.7		348.6			N2 - 455 RECALCULATED
19																VALUE.
20		O							-5.7		-5.7		332.7			GROUP.

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 31  
 LINE No.(s) 43 PARTY No. 184 DATE 10 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: FOG WIND P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF I. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1												353.9				
2		495		92.27.10	2° 27.10				-4.0	-21.2	25.2		328.1		SP 112	
3																
4	S	1815		91.17.50	1° 17.50				-4.0	-41.1	-44.9		308.4	O	SP 113	
5		R		263.42.38	1° 17.02				-4.0	-40.7				R		
6																
7	N	1815		90.12.57	0° 12.57				+4.0	+6.8	+10.6		326.8		A	
8		R		243.40.02	0° 11.58				+4.0	+6.3				R		
9																
10	N.	1032														
11		<del>527</del>		90.21.58	0° 21.58				-4.0	-6.6	+10.6		316.8		SP 112	SP 112 LINE 52
12													316.8		SP 432	INTERSECTION LINE 52
13													7.6			(PIPE SET 415' EAST
14													+73.9			ALONG LINE 52. INTERSECT
15																ON LAKE)
16	NE	1210		90.18.45	0° 18.45				0.0	6.6	-6.6		320.21			TOP OF PIPE: (3" BORE)
17													316.8			(GROUND
18	N	495		90.45.06	0° 45.06				-4.0	-6.5	70.5		316.8		SP 114	
19																
20																

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**STADIA SURVEY NOTES**

AREA N.P.R. 4 STATE or PROVINCE ALASKA PAGE No. 32  
 LINE No.(s) 43 PARTY No. 1184 DATE 10 Day S Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: FOG WINDY 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																
3		0														
4																
5	S	825	9106.33	7°06'30"					-4.0	-16.0	-19.3		306.9	Q	SP	115
6	R		2683425	1°05'30"					-4.0	-18.7				R		
7																
8	A	1320	874100	0°19'					-2.0	-7.3	-3.3		303.6			
9																
10																
11		0														
12																
13		1320	900603	0°06'03"					-4.0	-2.3	-6.3		297.3		SP	117
14																
15	S	1815	900754	0°07'54"					-5.0	-4.2	-8.9		294.7	Q		N2-456
16	R		2695800	0°07'00"					-5.0	-9.7				R		
17																
18	N	825	911615	0°45'45"					-5.0	-10.5	-5.6		302.1			
19	R		2701482	0°44'32"					-5.0	-10.7				R		
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 33  
 LINE No.(s) 43 PARTY No. 1184 DATE 10 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: FOG - WINDY 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												289.1			
2		0							5.7	-5.7		282.4	SP	118	
3															
4		1320		91 57 25	1 37 24				-4.0	-45.1	-49.1	240.0	SP	119	
5															
6	S	2496		91 02 22	1 02 22				-4.0	-46.3	-48.9	240.2	O		
7	R			268 58 35	1 01 24				-4.0	-44.6			R		
8															
9	N	2289		90 46 57	0 44 37				+4.0	+31.3	+35.0	275.2	O		
10	R			262 13 54	0 44 37				+4.0	+30.7			R		
11		2145		91 05 32	1 04 22				-4.0	-40.9	-44.9	238.3		SP 120	
12		825		92 08 37	2 03 37				-14.0	-29.7	-43.7	245.5		SP 121	
13															
14		0							5.6	-5.6		269.6	X		GROUP
15															
16		495		90 08 06	0 08 20				-4.0	-1.2	-5.2	270.0		SP 122	
17															
18	S	1815		89 58 35	0 07 27				-4.0	+3.9	+0.2	278.4	O	SP 123	
19	R			270 08 30	0 08 20				-4.0	-4.5			R		
20															

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 34  
 LINE No.(s) 43 PARTY No. 1184 DATE 10 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: FOG - SNOW - RAIN. 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	Correction	Center Hair			INST.	ROD			
1													275.4			
2																
3																
4	N.	2475	902636	0°26.56				74.0	+19.4	32.7	308.1			Δ		
5		R.	2693507	0°21.53				+14.0	-17.9					R		
6																
7		1155	904215	0°42.16				-4.0	-14.2	78.2			289.9		SP 124	
8																
9		0						-3.5		3.5			302.6	X		GROUP N2-457
10																
11		165	915610	1°56.10				-4.0	-5.6	-9.6			290.5		SD 125	
12																
13	S	1485	901046	0°10.46				-5.0	-4.7	-9.5			290.6	O	SP 126	
14		R.	2694959	0°10.01				-5.0	-4.3					R		
15																
16	N	2640	894856	0°11.04				+5.0	-8.5	-3.9	294.7			Δ		
17		R.	2701207	0°12.07				+5.0	-9.3					R		
18																
19		1320	901233	0°12.33				-4.0	-4.8	-8.8			285.91		SP 127	
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 35  
 LINE No.(s) 13 PARTY No. 1184 DATE 10 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUNN WEATHER: FCG 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												294.7				
2		0									-5.7	289.0	K	SP	128	
3		0														
4		1320	91 05 50	1° 05' 50"						-4.0	-25.3	265.4		SP	129	
5		1320														
6	S	2640	90 06 42	0° 06' 42"						-4.0	-5.1	286.0	O	SP	130	
7	R		269 54 31	0° 05' 29"						-4.0	-4.2		R			
8																
9	N	2145	90 18 25	0° 18' 25"						4.0	+11.5	301.4	A			
10	R		269 41 56	0° 18' 04"						4.0	-11.3		R			
11																
12		825	90 55 24	0° 55' 24"						-4.0	-13.3	284.1		SP	131	
13																
14		0														
15																
16		495	91 07 35	1° 07' 35"						-4.0	-9.7	287.7		SP	132	
17																
18	S	990	90 51 11	0° 51' 11"						5.0	-9.0	287.5	O		N2-459	
19	R		269 29 27	0° 30' 53"						5.0	-8.8		R			
20																

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**STAPIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 36  
 LINE No.(s) 43 PARTY No. 1184 DATE 10 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR J. SPRAGUE RODMAN LUND WEATHER: FOG. P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distances	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													207.5			
2																
3																
4	N	1320		90 46 31	0° 46 31				5.0	+17.9	+22.7	310.2		Δ		
5	R			269 14 16	0° 45 46				5.0	+17.6				R		
6																
7		495		91 46 13	7° 46 13				-4.0	-15.3	-12.3		290.0		SP	133
8																
9		0							8.5		3.5		304.7	7		N2-460
10																
11		825		90 47 20	0 47 20				-4.0	-11.4	-15.4		294.8		SP	134
12																
13	S	2145		90 26 48	0° 26 48				-4.0	-16.7	-20.4		289.8	0	SP	135
14	R			269 34 18	0° 25 48				-4.0	-16.0				R		
15																
16	N	2145		90 05 19	0° 05 19				+4.8	+3.3	+7.2	297.0		Δ		
17	R			269 55 00	0° 05 00				+4.0	+3.1				R		
18																
19		825		90 41 26	0° 41 26				-4.0	-3.9	-13.9		292.3		SP	136
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 37  
 LINE No.(s) 43 PARTY No. 1184 DATE 10 Day 5 Mo 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND 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	Correction	Center Hair			INST.	ROD			
1												297.0				
2																
3																
4		0							-5.7	-5.7		291.3	K		GROUP.	
5																
6		49.5	91 05 00	1° 05' 00"					-4.0	-9.4	-73.4	283.6		SP	137	
7																
8	S	181.5	89 45 15	0° 16' 45"					-4.0	+8.8	+15.1	302.1	O	SP	138	
9	R		270 17 32	0° 17' 32"					-4.0	+9.3			R			
10																
11	N	132.0	89 47 05	0° 10' 05"					+4.0	-4.2	-0.4	301.7	A			
12	R		270 11 57	0° 11' 57"					+4.0	-4.6			R			
13																
14		0							-5.6	-5.6		296.1		SP	139	
15																
16		132.0	89 29 03	0° 30' 57"					-4.0	+11.9	+7.9	309.6		SP	140	
17																
18	S	181.5	89 03 44	0° 50' 16"					-4.0	+26.5	+22.7	324.4	O		GROUP. N7.461	
19	R		270 51 03	0° 51' 03"					-4.0	+27.0			R			
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 38  
 LINE No.(s) 43 PARTY No. 1184 DATE 70 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: FOG P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	SEAMAN 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													324.4			
2	N	825		893755	+0° 22' 00"				+6.0	-5.3	+0.6	325.0		Δ		
3		R		2702247	+0° 22' 41"				+6.0	-5.5				R		
4																
5		0							5.5		3.5		319.5	X	SP	141
6																
7		1320		9050200	+0° 50' 20"				-14.0	-19.3	-3.3		297.7		SP	142
8																
9	S	2640		903843	+0° 38' 43"				-4.0	-29.7	-33.3		286.7	O	SP	143
10		R		2692226	+0° 37' 34"				-4.0	-28.8				R		
11																
12	N	1155		2684016	+1° 19' 44"				+14.0	+26.8	+40.9	332.6		Δ		
13		R		92033	+1° 20' 33"				+14.0	+27.1				R	SP	143
14																
15		0							-5.0		-5.0		327.6	X		GROUP.
16																
17		165		905027	+0° 50' 27"				-4.0	-2.4	-6.4		326.2		SP	144
18																
19		1485		901843	+0° 18' 43"				-4.0	-8.1	-12.1		320.5		SP	145
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 39  
 LINE No. (a) 43 PARTY No. 1184 DATE 10 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND 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												332.6				
2																
3	S	2805		90 08 47	0° 08' 47"				-4.0	-7.2	70.8 ✓	321.8	0	SP 146		
4		R		88 52 01	0° 07' 52"				-4.0	-6.5			R			
5																
6	N	1320		89 50'	0° 10'				+9.8	-3.8	+5.8 ✓	327.6	Δ			
7		R		87 10'	0° 10'				+9.4	-3.8			R			
8																
9		0							5.6		5.6	332.0	λ	SP 147		
10																
11		1320		91 06 52	1° 06' 52"				4.0	25.7	29.7	297.9		SP 148		
12																
13	S	2511		89 54 32	0° 08' 32"				5.0	4.0	-0.8 ✓	327.0	0		NZ-462	
14		R		87 04 58	0° 06' 58"				5.0	4.7			R			
15																
16	N	1449		88 48 23	1° 11' 17"				5.0	-30.0	-25.2 ✓	301.8	Δ			
17		R		87 15 07	1° 12' 07"				5.0	-30.4			R			
18																
19		1320		89 26 36	0° 26' 36"				4.0	12.8	8.8	332.6		SP 149		
20																

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**STADIA SURVEY NOTES**

AREA 4PR-4 STATE or PROVINCE ALASKA PAGE No. 40  
 LINE No.(s) 43 PARTY No. 1184 DATE 10 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND. 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												301.8'				
2																
3		0									-5.6		296.2'		SP 150	
4																
5		1320		89.3923	0° 20' 57"					-4.0	+7.9	3.9	305.7		SP 151	
6																
7	S	2178		89.3888	0° 24' 50"					-5.0	+15.7	+11.3'	313.1'	Q		N2-463
8		R		270.26.36	0° 26' 36"					-5.0	-16.3			R		
9																
10	N	2277		89.45.31	0° 16' 23"					-5.0	-10.3	-6.2'	306.9'	Δ		
11		R		270.17.15	0° 17' 15"					-5.0	-11.4			R		
12		1815		89.35.16	0° 24' 44"					-4.0	-13.1	-17.1	289.8'		SP 152	
13		495		90.32.09	0° 32' 09"					-4.0	-4.6	-2.6	298.3		SP 153	
14																
15		0														
16																
17	S	825		91.13.30	1° 12' 30"					-4.0	-17.6	-21.6'	285.38	Q	SP 154	
18		R		268.47.10	1° 12' 30"					-4.0	-17.5			R		
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 41  
 LINE No.(s) 43 PARTY No. 1184 DATE 13 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: WINDY 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. OF S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	N	1690		89.53+50	0.15				+4.0	-3.1	+0.9	286.2	285.3	A		
3	R			87.06 32	0.26 38				+4.0	-3.2				B		
4														C		
5																
6		370		91.14.50					-4.0		-12.1		279.4		SP 155	
7																
8		0							-5.8		-0.8		280.4		T	
9																
10		950		91.54.30					-4.0		-35.6		250.6		SP 156	
11																
12	S	2270		90.58.20					-4.0	-25.3	-29.2		277.0		SP 157	
13	R			86.21.58					4.0	25.1				R		
14																
15																
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 42  
 LINE No.(s) 43 PARTY No. 1184 DATE 13 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: WINDY P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													257.0			
2																
3	N	2640		90 28 35					+4.0	+22.0	+26.0	283.0		Δ		
4	R			260 31 20					+4.0	+22.0				R		
5																
6		1320		90 49 56					-4.0		-23.2		259.0		SP 158	
7																
8		200		90 52 42					-4.0		-7.1		276.2		INTERSECTION L-43 & 71	
9																
10		0							-5.9		-5.9		277.4	R	SP 159	
11																
12	S	1320		87 42 16					-4.0	+52.9	+48.9		331.9	Q	SP 160	
13	R			87 27 47					-4.0	+52.9				R		
14																
15	N	1320		90 40 57					+14.0	+15.7	+22.7	367.6		Δ		
16	R			89 18 58					+4.0	+15.8				R		
17																
18		0							5.8		-5.8				SP 161	NR-464
19																
20																

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**STAMIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 43  
 LINE No. (s) 43 PARTY No. 1184 DATE 13 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LAND WEATHER: WINDY 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 I. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1											36.6				TO BE RERUN	
2															SP 160	
3	S	1320		90 1306				-4.0	-5.0	-8.9	352.7	0	SP	162		
4		R		869 4728				-4.0	-4.9			R				
5																
6	N	1320		88 4240				+4.0	-6.7	-2.7	350.0					
7		R		870 1737				-4.0	-6.8			R				
8																
9		0						6.2		-6.2			X	SP	163	
10		1320		91 2328				-4.0	-32.0	-36.0				SP	164	
11																
12																
13	S	2640		91 41 41				-4.0	-78.1	-82.0	268.0	0	SP	165		
14		R		869 1836				-4.0	-77.9			R				
15																
16	N	2640		89 51 28				+8.0	-6.6	+1.3	269.36					
17		R		870 08 52				+8.0	-6.8			R				
18																
19		1320		89 56 40				-4.0	+1.3	-2.7				SP	166	
20																

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**STABIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 44  
 LINE No.(s) 43 PARTY No. 1184 DATE 13 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: 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.			
1		0							5.9	-5.9	269.3		SP 167	PERM	
2															
3		1320		270 29.50				-4.0	11.5	+7.5			SP 168		
4															
5	S	280.5		88 45.46	12 14			-4.0	+60.6	+56.74	326.0			GROUP	
6		R.		271 4.30	74 30			-4.0	+60.8				R		
7															
8	N	1155	✓					+9.1		+9.1	335.1			A	
9		R.	✓	270 00.00				+9.1					R.		
10															
11		1320	V					-71.4		-11.4			SP 169		
12															
13		0						6.0		-6.0			X	SP 170	
14															
15		1320		89 25.00				-4.0		+9.4			SD 171		
16															
17	S	2640		89 24.05	5 35 55			-6.0	+27.6	+21.0	356.9		SD 172		
18		R.		270 36.24	5 36 26			-6.0	+22.0				R		
19															
20															

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 45  
 LINE No.(s) 43 PARTY No. 1184 DATE 13 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: WINDY FOG P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		M.S. OF I. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												356.9				RERUN
2	N	2640		90 05 08				+4.0	+3.9	+7.8	364.7					
3		R		269 59 14				+4.0	+3.7							
4																
5		1320		90 06 29				-4.0		-6.5					SP 173	
6																
7		0						6.0		-6.0					SP 174	
8											362.0					
9	S	859		89 55 01				-4.0	+1.2	-2.7	371.4					N2-466 RECIPROCAL
10		R		870 05 29				-4.0	+1.4							VALUE
11																
12	N	1002		89 48 15				+4.0	-3.4	+0.5	362.59					
13		R		870 12 12				+4.0	-3.6							
14																
15		541		90 21 50				-4.0		-7.4					SP 175	
16																
17		0						6.0		-6.0						
18																
19		779		95 19 38				-4.0		-76.0					SP 176	
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 46  
 LINE No.(s) 43 PARTY No. 1184 DATE 13 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: WINDY 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		AB.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction				INST.	ROD			
1																
2																
3	S	944		9208.06				5.0	-35.2	-40.1		327.43	O		N2-468	
4		R.		2875279				5.0	-35.0				R			
5																
6		0						15.4		15.4		327.8				
7																
8	S	150		940432				4.0	-14.7			318.35			PIPE N2-468	
9															INTERSECTION LINES	
10															431 63	
11												303.5				
12	SW	580		9100.49				14.0	-24.3			322.9		SP 34	LINE 63	
13																
14	S	1155		9103.44				4.0	-26.1			327.7		SP 177		
15																
16	S	2475		9029.53				4.0	-21.5	-25.4		302.4	O	SP 178		
17		R		2693023				4.0	-21.3				R			
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 47  
 LINE No.(s) 43 PARTY No. 1184 DATE 13 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: 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																
3	N	3465		90.5821					+4.0	+58.8	+62.5	364.9		Δ		
4		R		869.0013					+4.0	+58.8				R		
5																
6		2145		91.4422					-4.0	-65.1	-69.1				SP 179	
7																
8		825		91.5426				HR.	18.0		25.5				SP 180	
9																
10		0							5.7		-5.7			K		GROUP
11																
12		495		89.5342					-4.0		-3.1				SP 181	
13																
14	S	1815		89.3125					-4.0	+15.1	+11.3	276.2		O	SP 182	
15		R		870.2926					-4.0	+15.5				R		
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 48  
 LINE No.(s) 43 PARTY No. 1184 DATE 15 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND 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	Correc-tion			Center Hair	INST.			
1															
2							9.1								
3	N	1815	✓			B	11.3	9.2	20.4	+20.3	396.5	Δ			
4	R		✓	270°00		B	11.0	9.2	20.2			R			
5															
6		495		90 25 43					-4.0	-7.7			SP	183	
7															
8		0							-0.3	-6.3			X	N2-470	
9															
10		825	✓						-3.0	-3.0	120.3		SP	184	
11															
12	S	2145	✓						-4.0	-3.9	392.6	Δ	SP	185 N2-471	
13	R		✓						-3.8			R			
14															
15	N	2640		90 04 34					+5.0	+3.5	401.0-4	Δ			
16	R			269 55 47					+5.0	+3.2		R			
17															
18		1320		90 09 53					-4.0	-7.83			SP	186	
19															
20		0							6.0	-6.0			SP	187	

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 40  
 LINE No.(s) 43 PARTY No. 1184 DATE 15 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND 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.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1																
2																
3		1320	✓				T	5.3	6.6	+1.3		71.3			SP 188	
4																
5	S	2640		89°50'						-5.0	+7.7	+2.9 ✓ +3.0 ✓	404.0	Q	SP 189	
6		R		270°10'						-4.7	+7.7			R		
7																
8	N	1485	✓							+14.2		+14.1 ✓ 418.15		Δ		
9		R		220°00'						+14.0				R		
10																
11		165	✓							-4.9		-4.9			SP 190	
12																
13		0								-5.7		-5.7		T		GROUP.
14																
15		1320		92°30'						-4.0		-61.6 ✓	356.5		SP 191	
16																
17	S	2475		96°30'						-11.7	-21.6	-33.1 ✓	295.0	Q	SP 192	
18		R		269°30'						-11.3	-21.6			R		
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 50  
 LINE No.(s) 43 PARTY No. 1184 DATE 15 Day 5 Mo. 15 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	N	940		23 16 25	3° 16 25				+6.0	+53.7	+59.6	444.6		Δ		
4		R.		266 44 01	3° 15 63				+6.0	+53.6				R		
5																
6		0							5.7		-5.7			X		
7																
8		380		29 28 16	0° 21 45				-4.0		-1.6				SP 193	
9																
10	S	1700		29 12 56	0° 47 04				-5.0	+23.3	+18.3	462.9		○	SP 194	N2-472
11		R.		270 47 12	0° 47 12				-5.0	+23.3				R		
12																
13		0							+6.0		+6.0			Δ		
14																
15		1320	✓				B	10.9	6.6	-17.5	-17.5				SP 195	
16																
17	S	2640		30 21 04	0° 27 04				-6.0	-20.8	-26.7	436.2		○	SP 196	
18		R		269 33 17	0° 26 43				-6.0	-20.8				R		
19																
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 51  
 LINE No.(s) 43 PARTY No. 1184 DATE 15 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	N	2640		90 23 21					+6.0	+17.9	+23.8	460.0		Δ		
4		R		269 37 05					+6.0	+17.6				R		
5																
6		1320		91 10 16					-7.0		-34.0	426.0			SP	197
7																
8		0							-5.7		-5.7				SP	198
9																
10		1320		90 39					-4.0		-19.0				SP	199
11																
12	S	2640		90 37 10					-4.0	-28.5	-32.5	427.5		0	SP	200
13		R		269 22 50					-4.0	-28.5				R		
14																
15	N	2640		91 11 52					+4.0	+55.2	+59.0	426.5		Δ		
16		R		269 48 36					+4.0	+54.8				R		
17																
18		1320		92 22 52					-4.0		-58.8				SP	201
19																
20																

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**STABIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 52  
 LINE No.(s) 43 PARTY No. 1184 DATE 15 Day 5 Mo. 75 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		H.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2		0														
3		0														
4																
5	S	250		83.54.46					-2.0	+2.6	+0.6		487.1	O		
6		R		87.38.40					2.0	+2.6				R		
7																
8	N	800		88.11.42					+11.0	-25.2	-14.2		472.9	Δ		
9		R		87.48.25					+11.0	-25.2				R		
10																
11		0														
12																
13		255		83.23.28					0.0	-15.1	-15.1				SP 203	TOP OF PIPE
14																(PRE 4.0 ABOVE GR.)
15		1410		81.35.20					-4.0		-43.1				*A	E.S.
16																
17		2100		89.17.10					-5.0		+25.0		497.0	O	*7	E.S. H2-474
18		R		87.43.05					-5.0					R		
19																
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALABAMA PAGE No. 53  
 LINE No.(s) 43 PARTY No. 1184 DATE 16 Day 5 Mo. 25 Yr. BOOK No. 5  
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	N	330		8231.36					5.0	-2.7	+2.3	500.2		Δ		
4		R		27028.27					+5.0	-2.7				R		
5																
6		0							-6.0		-6.0			R	#	B.E.S.
7																
8		1320		9051.35					-4.0		-62.9				#	12 E.S.
9																
10	S	2640		9102.45					-4.0	-53.0	-57.2	443.0		○	#16	E.S.
11		R		26820.46					-4.0	-53.2				R		
12																
13	N	990		8919.45					6.0	-11.6	-5.6	437.4		Δ		
14		R		27040.21					6.0	-11.6				R		
15																
16		0							6.0		-6.0			R	#19	ES
17																
18		1320		9112.18					7.5		-29.3				#23	ES
19																
20	S	1650		9128					7.5		-43.7	393.7		○	#24	ES

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WORKED BY [Signature]

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

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