

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 58  
 LINE No.(s) 192 PARTY No. 1182 DATE 20 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR A. Jensen RODMAN WEATHER: Clear - mild 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																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15	N	860	D 91 29 23						+4.1		+26.4	+87.2				
16			R 268 30 54													
17		825	91 26 04						-4.0		-24.6	462.4		SP 22		
18		0												B-2		
19	S	495	89 25 09						-4.0		+1.0	408.2		SP 21		
20	S	1815	89 03 25						-4.0		+25.9	461.3		SP 20		

S.P. Elevation survey starts from N4-181

Not USED (See Reciprocal Angle Elev. Survey brought from Line 172. Survey takes off from N4-170 (SP-229 + 660' h.o. 172)

Use this → \* This Elevation brought South along Line 192 from A Serra by Reciprocal Angles to this Point  
 $= SP-22 + 34.6'$   
 $* (460.8) \odot$  N4-181

573.10

TI-588B

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CHECKED BY 1st ADG

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 64  
 LINE No.(s) 19X PARTY No. 1182 DATE 21 Day 4 Mo. 7 Yr. BOOK No. 4  
 SURVEYOR A. Jensen RODMAN — WEATHER: clear-mild 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					Re: Page 63							3368	○	N4-188		
2														A15d	3P-39	
3		0		—				+6.2		+6.2	343.0		△			
4																
5	N	1320		90 22 05				-4.0		-12.5		330.5	○	SP 40		
6		—		269 37 51												
7	S	565		90 41 04				+4.0		+10.8	341.3		△			
8		—		269 18 32												
9	N	755		90 28 24				-4.0		-10.2		331.1		SP 41		
10	N	2075		90 18 41				-4.0		-15.3		326.0			42	
11	N	3395		90 12 18				-4.0		-16.1		325.2			43	
12	N	4715		90 10 15				-4.0		-18.3		323.0	○		44	
13	N	—		269 49 28				—								
14	S	1155		90 29 44				+4.0		+14.1	337.1		△			
15		—		269 29 51												
16	N	165		91 10 15				-4.0		-7.4		3297			45	
17	N	1485		90 01 17				-4.0		-4.6		3325			46	
18	N	1485		89 58 49				-4.9		-4.4		332.7	○	N4-189		
19		—		270 00 56										A15d	SP-46	
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 60  
 LINE No.(s) 197 PARTY No. 1182 DATE 20 Day th Mo. 75 Yr. BOOK No. 4  
 SURVEYOR A. Jensen RODMAN WEATHER: clear - mild 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												657.6			
2	N	764		90 17				-4.0		-7.8		640.8		SP 12	
3		0						-6.6		7.6		651.0		N4	-184 = SP-11 + 53%
4															
5	S	536		90 42 10				-4.0		70.6		647.0	⊙	SP 11	
6				269 20 40											
7	N	5445		89 44 30				+4.0		52.3	624.2		⊙	(long shot - but had	
8				270 18 20										NO choice	
9		4125		89 53				-4.0		+4.4		628.4		SP 10	
10		2825		90 02				-4.0		5.6		618.6		SP 9	
11		1485		90 13				-4.0		9.6		614.6		SP 8	
12	N	765		90 36				-4.0		5.7		618.5		SP 7	
13		0						-5.7				618.5		G-4	
14	S	1155		90 37				-4.0		76.1		608.1	⊙	SP-6	
15				269 25											
16	N	495		89 19				+4.0		50.1	597.4		⊙		
17				271 43				-							
18		0						-4.0							
19	S	825		54 26				-4.0		-6.0		591.4		G-3 (SP5 + 825)	
20	S	2145		89 53				-4.0		16.2		531.2		SP 5	
										+0.4		597.8		SP 4	

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### STADIA SURVEY NOTES

AREA N.P.P.-4 STATE or PROVINCE Alaska PAGE No. 61  
 LINE No.(s) 19 X PARTY No. 1182 DATE 20 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR A. Jensen RODMAN \_\_\_\_\_ WEATHER: clear - mild 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	297.0		88.57								597.4				
3				271.05								151.3	648.75	Δ	G-2	= SP 3 + 455
4	N	60.7		91.36												
5				268.27								420.7	669.4	Δ		
6	N	112		71.11												
7		0														
8																
9	S	121.4		90.42	30											
10				269.19	40											
11	N	82.5	D	88.33	30											
12			R	271.29	00											
13		6														
14	S	49.5		94.11												
15																
16																
17	S	148.5		94.16												
18	S	247.5		92.18												
19																
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE A/205K2 PAGE No. 62  
 LINE No.(s) 192 PARTY No. 1182 DATE 20 Day 4 Mo. 26 Yr. BOOK No. 4  
 SURVEYOR A. Jansen RODMAN \_\_\_\_\_ WEATHER: clear - mild P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1												460.8	⊙		N.4 - 181	
2															= SP-22 + 34.1	
3		0		-	(DEEP SNOW)			+6.7		+6.7	467.5		Δ			
4	N	1285		91.10	27			-4.0		30.3	437.2			SP	23	
5	N	2605		90.49	47			-4.0		41.7	425.8			SP	24	
6	N	3925		90.30	08			-4.0		38.4	429.1			SP	25	
7	N	4345		90.21	31			-4.2		31.4	436.1	⊙		N4	-186	
8				269.38	32			-							= SP-25 + 420.3	
9		3540	0	88.31	49			+4.2		-86.2	349.9		Δ			
10				271.27	29			-								
11	S	2640		88.57	10			-4.0		+45.0	394.9			SP	26	
12	S	1320		89.41	40			-4.0		+3.0	352.9			SP	27	
13		0		-				-6.5			348.4			SP	28	
14	N	1320		90.03	07			-4.0		-5.2	344.7			SP	29	
15	N	2640		89.59	59			-4.0		-4.1	345.8	⊙		SP	30	
16				269.59	44			-4.0								
17	S	2640		89.46	45			+4.0		-6.1	339.7		Δ			
18	S			270.13	09			-								
19	S	1320		89.57	20			-4.0		-3.0	336.7			SP	31	
20	-	0		-				-6.4			333.3			SP	32	

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 63  
 LINE No.(s) 15X PARTY No. 1182 DATE 20 Day 4 Mo. 25 Yr. BOOK No. 4  
 SURVEYOR A. Jensen RODMAN \_\_\_\_\_ WEATHER: 1122-mild 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												339.7				
2	N	1320		90 06 07					-4.0	-6.3		333.4		SP	33	
3	N	2640		90 00 41					-4.0	-4.6		335.1	(C)	SP	34	
4				269 59 38												
5	S	3697		90 10 46					+4.0	+15.3		350.4		(D)		
6				269 59 47												
7	S	2377		90 15 08					-4.0	-14.5		336.9		SP	35	
8	S	1057		90 33 38					-4.0	-14.3		336.1		SP	36	
9		0		-					-6.0			344.4		(N4-187)		
10														(= SP-36+1056.8)		
11																
12	N	263		90 36 16					-4.0	-6.8		343.6		SP	37	
13	N	1583		90 13 16					-4.0	-10.1		340.3		SP	38	
14	N	2903		90 11 11					-4.0	-13.6		336.8		SP	39	
15				269 49 24												
16																
17																
18																
19																
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE A/20 K2 PAGE No. 59  
 LINE No.(s) 192 PARTY No. 1182 DATE 26 Day 4 Mo. 96 Yr. BOOK No. 4  
 SURVEYOR A. Jensen RODMAN WEATHER: clear mild 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												487.2				
2	S	3135		88 47 02				-4.0		+58.0		545.2	⊙	SP 19		
3				271 02 57												
4	N	2387		91 20 38				+4.0		+60.0		605.2	⊙			
5				268 39 14												
6	N	1067		91 29 14				-4.0		-31.7		573.5		SP 18		
7		0		-				-6.0		2.0		579.2	⊙	N4	-182 = SP-17+2525	
8																
9	N	1367		90 49 00				+4.7		+24.2		623.4	⊙	T.M. distance		
10				269 11 00												
11	N	1119		90 48 41				-4.0		-19.8		603.4		SP 17		
12		0		-				-6.2		-6.2		617.2		N4	-183 = 16 + 206	
13																
14	S	206		90 21 18				-4.0		3.3		618.2		SP 16		
15	S	1526		89 45 43				-4.0		+2.3		625.7		SP 15		
16	S	2846	D	89 42 32				-4.0		+10.8 <sup>5</sup>		633.9	⊙	SP 14		
17			R	270 17 33												
18	N	3409	D	90 21 20				+4.8		+23.7		657.6	⊙			
19			R	269 41 30												
20	N	2084		90 23				-4.0		77.9		639.7		SP 13		

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 65  
 LINE No.(s) 19X PARTY No. 1182 DATE 21 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR A. Jensen RODMAN - WEATHER: clear-mild 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												332.7	⊙	N4-189		
2														SP-46		
3	S	2640		90 08 59				+4.9		+8.9	341.6		Δ			
4		-		269 54 34									1			
5	S	1320		90 01 09				-4.0		-4.4		337.2		SP 47		
6		0		-				-6.6				335.0		SP 48	329.9 AS.	
7	N	1320		90 41 37				-4.0		-20.0		321.6		SP 49		
8	N	2640		90 14 05				-4.0		-14.8		306.8	⊙	SP 50		
9		-		269 45 24				-				326.8	⊙	<del>SP 51</del>		
10	N	3960		89 57 53				-4.9		-2.7		338.9	⊙	SP 51	2nd	
11		-		270 01 40				-					1	N4-190		
12																
13	S	1320		89 55 59				+4.9		+3.4	342.3		Δ			
14		-		270 03 59				-								
15		<del>1320</del> 0						-6.4				335.9		SP 52		
16		1320		90 14 19				-4.0		-5.5		336.8		SP 53		
17	N	2640		<del>90 08 44</del> 90 11 49				-4.0		-13.2		329.1	⊙	SP 54		
18		-		269 47 48												
19	S	2640		90 08 44				+4.0		+10.8	339.9		Δ			
20		-		269 51 06												

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE Alaska PAGE No. 66  
 LINE No.(s) 192 PARTY No. 1182 DATE 21 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR A. Jensen RODMAN — WEATHER: clear-mild P.T.S. No. —

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1											339.9					
2	S	1320		90 10 48				-4.0		-8.1	331.8		SP	53		
3		0		—				-6.4			333.5		SP	56		
4		—						—					—	N4-191		
5																
6																
7	N	1320		90 06 42				-26.0		-28.6	311.3			SP 57		
8	N	2640		90 27 46				-4.0		-25.4	314.3		SO	SP-58		
9				269 32 06				—					CK			
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE AK PAGE No. 67  
 LINE No.(s) 19X PARTY No. 182 DATE 22 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONROE RODMAN \_\_\_\_\_ WEATHER: GOOD 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			At this point the survey is resumed												
2			by Paul Manahan												
3															
4	S	495		91 29 14					+4.0	+16.9	331.4	314.5	O	SP58	
5		-		R268 30 40									A		
6													CK		
7		0							-5.3			326'		SP58+495	
8				90 34 37											
9	N	625		90 34 37					-4.0	-12.3	319.1		-	SP59	
10	N	2145		89 54 00					4.0	-0.3	331.1		-	SP60	
11	N	3465		89 46 21					4.0	+9.9	341.1		O	SP61	
12		-		R270 13 37										CK	
13	S	1748		90 12 36					4.0	+10.5	351.6		A		
14		-		R269 47 13										CK	
15	S	428		90 07 34					4.0	-4.9		346.7		SP62	
16															
17		0							-5.7			345.9		SP62+428 = N4-192	
18															
19	N	1748		90 16 48					4.0	-12.5	339.1		O	SP63	
20		-		R269 43 19										CK	

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 68  
 LINE No.(s) 19X PARTY No. 182 DATE 22 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONOHON RODMAN \_\_\_\_\_ WEATHER: White-out-Light snow-mild 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																
3	S	3960	D	89 45 09				+4.0		-13.0	} 326.1	339.1	0		SP63	
4		-	R	270 14 40				-								
5	S	2640		90 00 44				4.0		-4.2		321.5			SP64	
6	S	1320		89 55 36				-4.0		-2.3		323.8			SP65	
7																
8		0		-				-5.6				320.5			SP66	
9																
10	N	1320		90 59 35				-4.0		-26.9		299.2			SP67	
11	N	2640		89 0 49 12				-4.0		-41.8		284.3			SP68	
12	N	3960	D	90 25 55				-4.0		-34.0	} 326.0	292.1	0		SP69	
13		-	R	269 33 48				-								
14	S	1815	D	90 56 25				+4.0		+33.9		326.0				
15		-	R	269 03 04				-								
16	S	495		91 02 58				-4.0		-13.1		312.9			SP70	
17																
18		0		-				-5.5				320.5			SP70+495	
19																
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 69  
 LINE No.(s) 19X PARTY No. 182 DATE 22 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONOHON RODMAN \_\_\_\_\_ WEATHER: CLOUDY WARM 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												326.0				
2																
3	N	825		89 58 24				4.0		-3.6		322.4		SP71		
4	N	2145		89 57 42				4.0		-2.6		323.4		SP72		
5	N	2463		89 58 01				4.2		-3.1		322.9	o	SP72+18	=N4-193	
6				R 270 01 01				-				(324.5)	CK			
7	S	3642		D 88 46 27				4.2		-73.6		250.9		Δ		
8				R 271 13 24										CK		
9	S	2640		90 24 02				4.0		-22.5		228.4		SP73		
10	S	1320		91 07 35				4.0		-29.9		221.0		SP74		
11																
12		0		-												
13								5.5				245.4		SP75		
14	N	1320		90 11 50				4.0		-8.5		242.4		SP76		
15	N	2640		D 90 07 11				4.0		-9.1		241.8	o	SP77		
16				R 269 53 55										CK		
17	S	1036		D 92 43 47				4.0		+53.3		295.1		Δ		
18				R 267 16 05										CK		
19																
20		0		-				5.3				289.8		SP77+1036	= <del>N4-193</del>	

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 70  
 LINE No.(s) 19x PARTY No. 182 DATE 22 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR Mondruph RODMAN \_\_\_\_\_ WEATHER: Light - snow - mild 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												295.1				
2																
3	N	284		92 14 26					-4.0	-15.1		280°		SP78		
4	N	1604		D 89 26 21					-4.0	+11.8		3029°	0	SP79		
5				R 270 33 55					-					CK		
6	S	1320		D 90 36 30					+7.5	+21.6		328.5		Δ		
7				R 269 23 02					-					CK		
8																
9		0		-					-5.6			322.9		SP80		
10																
11	N	1320		D 90 09 45					-4.0	-7.8		320.7	0	SP81		
12				R 269 49 52					-					CK		
13	S	3135		D 89 49 05					+4.0	-5.9		3148		Δ		
14				R 270 10 49					-					CK		
15	S	1815		D 89 58 55					-4.0	-3.4		3114		SP82		
16	S	495		D 90 29 06					-4.0	-8.2		306°		SP83		
17																
18		0		-					-5.5			3093		SP83 + 495		
19																
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 71  
 LINE No.(s) 19X PARTY No. 182 DATE 22 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR M. DONOHON RODMAN \_\_\_\_\_ WEATHER: HAZY - Light snow - mild 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												314.8				
2																
3	N	825		90 22 10				-4.0		-10.5		304.3		SP84		
4	N	2145		90 35 40				-4.0		-26.3		288.5		SP85		
5	N	3465		90 30 07				-4.0		-34.4		280.4	0	SP86		
6				82 09 29 51				-						CK		
7	S	2640		70 43 17				+4.0		+37.2	317.6			A		
8				82 16 53				-						CK		
9	S	1320		91 07 07				4.0		-29.8		287.8		SP87	✓	
10														S		
11		0		-				-5.3				312.3		SP88		
12																
13	N	495		90 31 32				-4.0		-8.5		309.1	0	SP88+495	= N4-1945	
14				82 09 28 4				-						CK		
15	S	825		88 50 52				+4.0		-12.6	296.5			A		
16				82 11 09 02				-						CK		
17																
18		0		-				-5.4				291.1		SP89	= N4-196	
19																
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 72  
 LINE No.(s) 19X PARTY No. 182 DATE 22 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONOHON RODMAN \_\_\_\_\_ WEATHER: HAZY - 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												296.5				
2																
3	N	1320		91 26 21					-4.0	-37.1		259.4		SP90		
4	N	2640		91 12 30					-4.0	-59.6		236.9	0	SP91		
5		-		82 28 47.95										CK		
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 73  
 LINE No.(s) 19X PARTY No. 182 DATE 23 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONOHON RODMAN WEATHER: HAZY BREEZIEY COOL 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												236.9	0		SP91	
4	S	3135		89 57 02					+4.0		+1.3	238.2		Δ		
5				R 270 03 01					-					CK		
6	S	1815		90 48 01					-4.0		-29.3		200.9		SP92	
7	S	495		92 39 53					-4.0		-27.0		211.2		SP93	
8																
9		0		-					-5.3				232.9		SP93+495	
10																
11	N	825		89 34 53					-4.0		+2.0		240.2	0	SP94	
12				R 270 25 13					-					CK		
13	S	4455		90 11 42					+4.0		+19.1	259.3		Δ		
14				R 269 48 20										CK		
15		3135		90 34 18					-4.0		-35.3		224.0		SP95	
16		1815		90 57 31					-4.0		-34.9		224.9		SP96	
17	S	495		90 43 20					-4.0		-10.2		249.1		SP97	
18																
19		0		-					-5.5				253.8		SP97+495	
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 74  
 LINE No.(s) 19x PARTY No. 182 DATE 23 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONOHON RODMAN \_\_\_\_\_ 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.	ROD			
1												259.3				
2																
3	N	825		90 19 40						-4.0	-8.7	250.6		SP98		
4		2145		90 09 35						-4.0	-10.0	249.3		SP99		
5	N	2750		90 09 45						4.7	-12.5	246.8	O	SP99	+605 = N4-197	
6		-		82 69 50 20						-				CK		
7	S	2035		89 43 11						4.7	-5.3	241.5		CK		
8		-		82 70 16 53						-				CK		
9		1320		89 52 08						4.0	-1.0	240.5		SP100		
10																
11		0		-												
12												236.2		SP101		
13																
14																
15	N	3960		91 05 33						4.0	-82.5	159.0	O	SP102	Look on Page 75	
16				82 68 54 26						7.0				SP103	shot in FROM SP 105	
17										-				CK		
18																
19																
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 75  
 LINE No.(s) 19X PARTY No. 182 DATE 23 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MORISON RODMAN \_\_\_\_\_ 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.	ROD			
1																
2																
3	S	1320	D	89 54 12					+7.0	+4.8	163.8	159.0	O	SP104		
4	S		R	270 05 44										CK		
5																
6		0		-					-5.6			158.2		SP105		
7																
8	S	3960		89 47 28					-4.0	710.4		174.2		SP102		
9	S	2640		89 53 44					-4.0	+0.8		164.0		SP103		
10																
11	N	1320		90 04 06					-4.0	-5.6		158.6		SP106		
12	N	2640	D	89 58 13					-4.0	-2.5		161.3	O	SP107		
13			R	270 02 02										CK		
14	S	2145	D	90 58 55					+4.0	+40.8	202.1			CK		
15			R	269 00 56										CK		
16	S	825		92 07 12					-4.0	-34.3		167.4		SP108		
17																
18		0		-					-5.3			196.8		SP108+825		
19																
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 76  
 LINE No.(s) 19x PARTY No. 182 DATE 83 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONOHON RODMAN \_\_\_\_\_ 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.	ROD			
1																
2	N	495		090 05 36							202.1					
3				8269 54 19								196.5			SP109 = N4-198	
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 77  
 LINE No.(s) 19X PARTY No. 182 DATE 24 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONROTON RODMAN \_\_\_\_\_ 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.			
1															
2															
3	S	554		89 41 53				2.8	+1.9	198.4	196.5	0	NA-198	SP109	
4				270 18 06				-							
5															
6		0			INSTRUMENT 0.3' BELOW PIPE TOP			+0.3			198.7	-	NA-199	SP 109 + 554 (L19X)	
7									G.L. =		192.7			SP 107 + 561 (L50)	
8														190.4 (A.S.)	
9															
10															
11	E	561		89 59 09				4.0	-3.9		194.5		SP 107	L 58	
12															
13															
14															
15															
16															
17															
18															
19															
20															

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 70  
 LINE No.(s) 19X PARTY No. 182 DATE 24 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR M. J. HODON RODMAN 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		▲B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1												198.4				
2		766		0				+0.3				198.7		NA-199 a	SP109+554	
3	N	1320		90 52 25				-4.0		-15.7		182.7			SP110	
4	N	2086	2640	90 45 06				-4.0		-31.4		167.0	0		SP111	
5				259 14 47				-							CK	
6	S	825		90 57 15				-4.0		+12.8	184.8				Δ	
7				269 02 33				-							CK	
8																
9		0						-5.2				179.5		CP	111+825	
10																
11	N	495		90 15 33				-4.0		-6.2		178.6			112	
12				269 44 30				-							CK	
13	S	3960		89 50 19				-4.0		-7.2	171.4				Δ	
14				270 09 44				-							CK	
15		2640		90 04 46				-4.0		-7.7		162.7			SP113	
16	S	1320		90 13 35				-4.0		-8.8		162.6			SP114	
17																
18		0						-5.3				116.1			SP115	
19																
20	N	1320		90 26 08				-4.0		-14.0		157.4			SP116	

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 79  
 LINE No.(s) 19x PARTY No. 182 DATE 24 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONOHON RODMAN \_\_\_\_\_ 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	Correction	Center Hair			INST.	ROD			
1											171.4					
2	N	2640		90 22 24				-4.0		-21.2		150.2			SP 117	
3	N	3960		90 19 26				-4.0		-26.3		145.1	0		SP 118	
4				269 40 47				-								CK
5	S	2640		89 56 45				+4.0		+1.7	146.8					Δ
6				270 02 48				-								CK
7		1320		90 15 02				-4.0		-9.8		137.0			SP 119	
8																
9		0		-				-5.3				141.5			SP 120	
10																
11		1320		90 26 46				-4.0		-14.3		132.5			SP 121	
12	N	2640		90 09 01				-4.0		-71.1		135.7	0		SP 122	
13				269 22 50 33				-								CK
14	S	3960		89 54 59				-4.0		-1.8	133.9					Δ
15				270 05 02												CK
16		2640		89 59 32				-4.0		-3.6		130.3			SP 123	
17	S	1320		89 57 41				-4.0		-3.1		130.8			SP 124	
18																
19		0														
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 80  
 LINE No.(s) 19x PARTY No. 182 DATE 24 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONOHON RODMAN 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												133.9			
2	N	1320		89 59 43				4.0		-3.9		130.0		SP126	SP127 <sup>QUARTER</sup> <sub>HERE</sub>
3	N	2135		89 53 23				5.8		+0.2		134.1	0	N4-201 @	SP127+495
4				270 06 30				-						CK	
5	S	2465		89 50 20				5.8		-3.9		130.2		Δ	
6				270 09 38										CK	
7		2640		89 53 26				-4.0		+1.0		121.2			SP128
8		1320		90 04 16				-4.0		-3.6		124.6			SP129
9															
10		0		-				5.3				124.9			SP130
11															
12		1320		90 09 54				4.0		-7.8		122.4			SP131
13	N	2640		90 01 42				4.0		-5.2		123.0	0		SP132
14				269 58 33				-						CK	
15	S	3960		89 58 15				4.0		+1.9		126.9		Δ	
16				270 01 57										CK	
17		2640		90 08 02				4.0		-7.2		116.7			SP133
18	S	1320		90 13 14				4.0		-9.1		117.8			SP134
19															
20		0		-				5.5				121.4			SP135

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 81  
 LINE No.(s) 19X PARTY No. 182 DATE 24 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONOHAN RODMAN \_\_\_\_\_ WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

LINE	Searing 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												126.9				
2	N	1320		90 12 09				4.0		-9.0		117.9			SP 136	
3	N	2640		90 09 19				4.0		-11.1		115.8			SP 137	
4				269 50 55				-							CK	
5	S	2640		89 57 52				+4.0		-2.0		113.8			Δ	
6				270 07 39				-							CK	
7		1320		90 03 10				4.0		5.2		108.4			SP 138	
8																
9		0		-				5.3				108.5			SP 139	
10																
11		1077.5		270 06 57				4.0		6.7		107.1			SP 140	
12		2640		90 03 10				4.0		-6.4		107.4			SP 141	
	N	3960		89 44 18	TIP	TOP	FLAG	6.8		+5.7		119.5			NA-202=SP 142	
				270 10 58				6.8							CK	
	S	3960		89 52 07				4.5		-4.6		114.9			Δ	
				270 07 58				4.5							CK	
		2640		90 02 00				4.0		-5.5		109.4			SP 143	
		1320		90 10 22				4.0		-8.0		106.9			SP 144	
		0		-				5.6				109.3			SP 145	

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 82  
 LINE No.(s) 19x PARTY No. 182 DATE 24 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONOHON RODMAN \_\_\_\_\_ 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												114.9				
2	N	1320		90 42 52				-4.0		-20.5		94.4			SP146	
3		2640		90 12 22				-4.0		-13.6		101.3			SP147	
4	N	3465		90 00 17				-4.3		-4.7		116.2		O	N4-203 @ SP147+825	
5				269 59 32				-						CK		
6	S	1815		89 25 11				+4.3		-14.2	96.0			A		
7				270 35 10				-						CK		
8		1320		89 52 52				-4.0		-1.3		94.7			SP148	
9																
10		0		-				5.8				90.2			N4-204 @ SP149	
11																
12	N	1320		90 04 08				-4.0		-5.5		90.5		O	SP150	
13				269 56 14				-						CK		
14	S	2640		90 22 55				+4.0		+21.4	111.8			A		
15				269 37 33				-						CK		
16															SP151 SAME ELEV AS SP150	
17																
18		0		-				5.8				106.1			SP152 = N4-205	
19																
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE AK PAGE No. 83  
 LINE No.(s) 19X PARTY No. 182 DATE 24 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MCDONALD RODMAN \_\_\_\_\_ 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												111.9				
2												88.7			SP 153	SAME ELEV AS SP154
3		2640		90 25 00				-4.0		-23.2		88.7			SP 154	
4	N	3960		70 16 25				-4.0		-22.7		89.2	0		SP 155	
5				269 43 56				-						(CK		
6	S	2640		90 08 17				+4.0		+10.7	99.4			A		
7				269 52 07				-						(CK		
8	S	1320		90 18 09				-4.0		-11.0		88.4			SP 156	
9																
10		0						-1.4				98.0	0		SP 157	END LINE 19X
11												-4.0				
12												Ground 94.0				
13																
14																
15																
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

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AREA NPR4 STATE or PROVINCE AK PAGE No. 88  
 LINE No.(s) 19X PARTY No. 182 DATE 26 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR M D W HOW RODMAN MIKE 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																
3		2640	90 13 50		TOP PIPE			0.0		70.2	108.6	98.0	0		N4-206 = SP 157	
4		2640	269 46 20					-						Δ		
5		1320	90 31 11					4.0		-12.0		92.8		CK	SP 158	
6		0	-					5.7				102.9			SP 159 (N4-207)	
7		1320	90 05 59					4.0		-6.3		102.3	0		SP 160	
8		-	269 54 07					-						CK		
9		1320	89 36 40					4.0		-5.0	97.3			Δ		
10			270 23 46					-						CK		
11																
12		495	90 09 35		TOP PIPE			0.0		-1.3		96.0	-		SP 160 + 82.5 (PIPE)	
13			269 50 58											CK		
14		0	-					5.3				92.0			SP 161	
15																
16		THE END OF THIS LINE WAS EXTENDED														
17		FROM SP 157 TO SP 161 SO PIPES WERE														
18		INSTALLED AT BOTH LOCATIONS.														
19		SEE NOTE ON TAIL SPREAD														
20		NEXT PAGE														

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**STADIA SURVEY NOTES**

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AREA MRR-4 STATE or PROVINCE AK PAGE No. 29  
 LINE No.(s) 19K PARTY No. 182 DATE 26 Day 4 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR MONOHON RODMAN WEATHER: P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ΔB.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2			THE TALSPEED WAS REMOVED BY THE JUG CREW													
3			BEFORE ELEVATIONS WERE TAKEN. ELEVATION CHANGES													
4			FROM THE END OF THE LINE (SP161) WERE APPROX													
5			AS FOLLOWS													
6																
7				TS		162							92.0			
8																
9				TS		163							92.0			
10																
11				TS		164		+10					102.0			
12																
13				TS		165		+10					102.0			
14																
15				TS		166		+5					97.0			
16																
17				TS		167		+5					97.0			
18																
19																
20																

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