

## STADIA SURVEY NOTES

AREA Kuk River STATE or PROVINCE North Slope, Alaska PAGE No. 1  
 LINE No.(s) 7 PARTY No. 1182 DATE 13 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. B. Allen RODMAN T. VanAllen WEATHER: 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	Correction			Center Hair	INST.		
1														
2														
3														
4											72.7		16	
5	S	4455	-					C	13.3	+12.5	85.2	Δ		D
6	"	"	-					C	12.6					P
7	"	3135	-					C	13.1	-12.9	72.3		15	
8	"	1815	-					C	10.9	-10.8	74.4		14	
9	"	495	-					C	12.3	-12.3	72.9		13	
10	N	825	-					C	11.8	-11.8	73.4		12	
11	T	0	-					C	6.2	-6.2	79.0		Pin	
12	N	2145	-					C	12.0	-11.9	73.3		11	
13	"	3465	-					C	12.1	-11.8	73.4		10	
14	"	4785	-					C	11.9	-11.1	74.1	○	9	D
15	"	"	-					"	11.3					R
16	S	3960	-					C	9.8	+9.1	83.2	Δ		D
17	"	"	-					"	9.1					R
18	"	2690	-					C	10.5	-10.4	72.9		8	
19	"	1320	-					C	-9.8	-9.8	73.5		7	
20	T	0	-					C	5.6	-5.4	77.6		6	

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**STADIA SURVEY NOTES**

AREA Kuk River STATE or PROVINCE North Slope, Alaska PAGE No. 2  
 LINE No.(s) 7 PARTY No. 1182 DATE 13 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR H. E. ALLEN RODMAN T. VAN ALLEN 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												83.2				
2	N	1320	-			C			9.2		-9.2		74.1		5	
3	"	2640	-			C			9.3		-9.2		74.1		4	
4	"	3960	-			C			7.5		-6.9		76.3	⊙	3	D
5	"	"	-			"			7.0							R
6	S	2640	-			C			2.6		+2.3	78.6		Δ		R
7	"	"	-			"			2.2							R
8	"	1320	-			"			7.9		-7.9		70.7		2	
9	K	0	-			"			6.0		-6.0		72.6		1	
10	N	1155	-			C			6.1		-6.1		72.5		Tail 4	
11	"	2475	-			C			10.4		-10.3		68.3		8	
12	"	3795		90°02'	50"	C			14.5		-17.3		61.2		12	
13	"	6435		90°00'	18"	"			"		-14.2		64.4		20	
14	"	7755		89°58'	53"	"			"		-10.7		67.8		24	
15	S	2640		89°50'	28"	C			10.0		-2.3		76.3	⊙		D
16	"	"		270°10'	09"	"			"							R
17	N	3960		90°03'	58"	C			3.0		+7.0	83.2		Δ		D
18	"	"		269°56'	31"	"			"							R
19	S	3960		90°03'	47"	C			6.0		-9.7		73.5	⊙		D
20	"	"		229°56'	48"	C			"							R

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## STADIA SURVEY NOTES

AREA Kuk River STATE or PROVINCE North Slope, ALASKA PAGE No. 3  
 LINE No.(s) 7 PARTY No. 1182 DATE 13 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR K.E. ALLEN RODMAN T. VAN ALLEN 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	N	4785		90°02' 58"		C			8.°	+11.2	84.8		Δ	D	
3	"	"		269°57' 39"		"			"					R	
4	S	4455		90°03' 38"		C			9.°	-12.8		72.0	⊙	16	D
5	"	"		269°57' 10"		"			"					R	
6															
7															Refer to page-1 of
8															line #7 for elev.
9															72.7
10															72.0
11															Tie
12															-0.7
13															
14															
15															
16															
17															
18															
19															
20															

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## STADIA SURVEY NOTES

AREA Kuk River STATE or PROVINCE North Slope, Alaska PAGE No. 4  
 LINE No.(s) 7 PARTY No. 1182 DATE 13 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR K. R. ALLEN RODMAN T. VANALEN WEATHER: CLEAR P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2															
3															
4	N	3465	-												
5	"	"	-												
6	"	2145	-												
7	"	825	-												
8	S	495	-												
9	"	1815	-												
10	"	3135	-												
11	"	"	-												
12	N	3960		89°59' 43"											
13	"	"		270°01' 00"											
14	"	2640		89°57' 55"											
15	"	1320		89°55' 23"											
16	K	0													
17	S	1320		89°47' 01"											
18	"	2640		89°51' 16"											
19	"	3960		89°48' 49"											
20	"	"		270°11' 35"											

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## STADIA SURVEY NOTES

AREA Kuk River STATE OR PROVINCE North Slope Alaska PAGE No. 5  
 LINE No.(s) 7 PARTY No. 1182 DATE 13 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR K. R. ALLEN RODMAN T. VAN ALLEN WEATHER: CLAR 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											85.8				
2															
3	N	5280		89° 47' 20"	C			14.8	-5.7	80.1		Δ		D	
4	"	"		270° 13' 15"	"			"					28	R	
5	"	3960		89° 43' 48"	"			"	+4.2		84.3		28		
6	"	2640		89° 38' 44"	"			"	+1.7		81.8		29		
7	"	1320		89° 29' 31"	"			"	-3.1		77.0		30		
8		0						5.8	-5.8		74.3		31		
9	S	1320		89° 43' 58"	C			14.8	-8.6		71.5		32	E.O.L.	
10	"	2475		89° 59' 55"	"			"	-14.6		65.5		TAI 4		
11	N	5280		89° 47' 20"	C			14.8	+5.7		85.8	0		D	
12	"	"		270° 13' 15"	C			"						R	
13	S	3960		89° 48' 49"	C			8.0	-5.4	80.3		Δ		D	
14	"	"		270° 11' 35"	"			"						R	
15	N	3960		89° 59' 43"	C			6.0	-4.9		75.4	0		D	
16	"	"		270° 01' 00"	"			"						R	
17	S	3135		89° 54' 33"	C			13.0	+7.7	83.1		Δ		D	
18	"	"		270° 05' 37"	"			"						E	
19	N	3465		89° 58' 33"	C			13.0	-11.1		72.1	0	Sp 16	LINE * 6, ELEV 72.7	
20	"	"		270° 01' 50"	"			"						72.1	

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### STADIA SURVEY NOTES

AREA H.P. 244 STATE or PROVINCE ALASKA PAGE No. 30  
 LINE No. (s) 07 PARTY No. 1195 DATE 31 Day Jan Mo. 1977 Yr. BOOK No. 2  
 SURVEY DESTARLOIS RODMAN B. Cairns WEATHER Clear -55 Very Cold P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2															
3															
4		2200		89°40'						-55	566.5	5720		TS 48	
5		1320		89°40'						-08		565.7		TS 44	
6	N	440					1'	+2.2		+1.1		567.1		SG 40	
7		0								-50		561.5		TS 38	
8	S	440		93°16'						-38.8		527.7		TS 36	
9		1820		93°56'50"						-103.6		462.9		TS 32	
10		2200		93°10'						-136.1		430.9		TS 28	
11		3080		91°56'						-704.5		462.0		TS 24	
12															
13		3300		91°50'						+115.4	577.4			TS 20	
14		2420		92°50'						-134.4		443.0		TS 16	
15		1540		92°20'						-74.7		502.7		TS 12	
16	N	660		93°00'						-47.5		529.9		TS 9	
17		0								-50		572.4		TS 8	
18	S	220		91°00'						-10.5		558.9		TS 4	
19		1100		90°50'						-82.1		550.0		TS 4	
20		5970								-28		574.6		SD 300	

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**STADIA SURVEY NOTES**

AREA N.P.R #4 STATE OR PROVINCE ALASKA PAGE No. 31  
 LINE No.(s) 07 PARTY No. 1195 DATE 31 Day Jan Mo. 1977 Yr. BOOK No. 1  
 SURVEYOR R. DASTARLAINIS RODMAN C. Paine WEATHER: Clear Very Cold - 55 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																
4		2600				T	109	-13°								
5		V		270°10												
6		0														
7		810		86°30'												
8		V		273°40												
9																
10																
11																
12																
13		2530		90°30												
14		V		269°27'46'												
15		N 770		92°20'												
16		0														
17		S 990		92°20'												
18		2260		92°20'												
19		2250		90°45'												
20		V		269°14'46'												

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## STADIA SURVEY NOTES

AREA N.P.R #4 STATE or PROVINCE ALASKA PAGE No. 32  
 LINE No.(s) 07 PARTY No. 1195 DATE 31 Day JAN Mo. 1977 Yr. BOOK No. 3  
 SURVEYOR C. DEJARNIS RODMAN C. Rains WEATHER: Clear Very Cold - 55 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	770		90°40'				128	121.8	+21.5	583.5		562.0			
3		V		269°32'13				15	121.2					Δ		
4		0								-50			578.5			4-303
5	S	990		92°00'				134		-48.0			535.5			5-304
6		1980		89°00'				17	+332	+338			617.3	⊙		5-304
7		V		271°08'25				50	1344					⊙		
8																
9	N	660		86°06'44				10	-348	-35.0	582.3			⊙		
10		V		274°11'021				13.0	-35.2					⊙		
11		0						5.0		-5.0			577.3			B-304
12	S	110		96°08'2				4.0		-158			566.5			5-305
13		880		94°50'				13.2		-87.4			494.9			A-305
14		1540		92°24'59				15.0	-79.9	-79.4			502.9	⊙		7-305
15		V		267°26'23				10.0	-78.8					⊙		
16																
17		1320		91°40'				11.6	+50.0	+49.5	552.4			Δ		
18		V		268°18'35				10.0	+48.9					⊙		
19		990		93°20'				15.0		-72.6			475.8			5-306
20		0						50		-5.0			547.4			5-306

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## STADIA SURVEY NOTES

AREA N.R.R #4 STATE or PROVINCE ALASKA PAGE No. 34  
 LINE No.(s) 07 PARTY No. 1195 DATE 2 Day Feb Mo. 1977 Yr. BOOK No. 2  
 SURVEYOR P. DESJARDIS RODMAN R. LINDS WEATHER: Very Cold 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	225															
4	✓			269°42'55"													
5	0																
6	S	1430		94°00'													
7	✓	1540		94°10'													
8	✓			265°48'12"													
9																	
10	N	1650		86°40'													
11	✓			223°32'11"													
12	0																
13	S	1760		89°30'													
14	✓	2090		89°25'													
15	✓			270°46'39"													
16																	
17	N	1320		98°30'													
18	✓			269°25'21"													
19	0																
20	S	110															

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STADIA SURVEY NOTES

AREA N.R. #4 STATE or PROVINCE ALBERTA PAGE No. 35  
 LINE No.(s) 07 PARTY No. 1195 DATE 2 Day Feb Mo. 1977 Yr. BOOK No. 2  
 SURVEYOR F. DESJARDIS RODMAN G. Laine WEATHER: Very Cold -50 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	Correction				INST.	ROD			
1																
2		420		89° 20'				3°	+67	+0.8		565.3	⊙	TBM 702		
3		V		270° 49' 12"				3°	+1°			566.5	V		566.5	
4											Tree	1.3	Low.			
5												566.5				
6																
7																
8		N 1020		86° 57' N				5°	-49.2	-49.6	516.9		Δ			
9		V		273° 22' 25"				10°	-50°				V			
10		0						5°		-50		511.9				
11		6 450		95° 20'				14.9		-58'		458.8		SP 314		
12		1440		94° 10'				12.7		-117.4		399.5		5 - 314		
13		2210		71° 20'				11.9	-62.3	-62.2		454.7	⊙	SP 315	454.5	
14		V		268° 40' 30"				10°	-61'				V			
15																
16		N 1210		95° 05'				13.6	+120.9	+120.3	575.0		Δ			
17		V		264° 48' 18"				10°	+119.2				V			
18		0						5°		-50		570		6 - 315		
19		S 550		86° 45' 53"				15°	+16'	+16.4		591.4	⊙	SP 316	591.0	
20		V		273° 27' 23"				14°	+16.8				V			

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## STADIA SURVEY NOTES

AREA N.R. 24 STATE or PROVINCE ALABAMA PAGE No. 36  
 LINE No.(s) 07 PARTY No. 1195 DATE 2 Day Feb Mo. 1922 Yr. BOOK No. 2  
 SURVEYOR C. DEWALD RODMAN G. P. HAYS WEATHER: Very Cold - 50 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	N	1760		88° 10'				42	-52'	-528	538.6		Δ			
3		V		272° 04' 05"				100	-535				✓			
4		0						50		-50		533.6		SP 317		
5		550		92° 30'				145	-385	-383		500.3	○	3 -317	499.8	
6		V		267° 04' 25"				100	-381				✓			
7																
8		2200		93° 50'				108	+1580	+1070	657.3		Δ			
9		V		266° 04' 00"				50	+156				✓			
10		1540		96° 30'				118		-182.4		470.9		6 -317		
11	N	930		96° 40'				126		-127.7		529.4		SP 318		
12		0						50		-50		652.3		5 -318		
13		460		84° 40'				92	+331	+333		690.6	Δ	2 -318	689.8	
14		V		275° 40' 31"				120	+335				✓			
15																
16	N	150						89	+89	+88	699.4		Δ			
17		V		270° 28' 05"				100	+88				✓			
18		0								-50		694.4				
19	S	185						77		-77		691.7		SP 319		
20																

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STADIA SURVEY NOTES

AREA N.P.R.#4 STATE OR PROVINCE ALABAMA PAGE No. 37  
 LINE No.(s) 07 PARTY No. 1195 DATE 2 Day Feb Mo. 1972 Yr. BOOK No. 2  
 SURVEYOR R. DESJARDIS RODMAN G. Bains WEATHER: Very Cold -50 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												699.4				
2		1845		89°20'				24		+19.1		718.5		SP 320		
3		2610		88°41'40"				150	+149.5	+145.9		745.3	⊙	4-320	744.4	
4		V		21°21'59"				150	+147.2							
5																
6	N	440		86°40'				9.5	-16.1	-16.2	729.1		⊙			
7		V		273°41'52"				12°	-16.4					V		
8		0						50		-50		724.1		6-320		
9	S	550		94°00'				150		-53.4		675.7		SP 321		
10		1320		94°30'				146		-118.2		610.9		4-321		
11		2310		92°40'				130		-120.2		608.9		SP 322		
12		2860		91°20'				100	-76.6	-75.3		653.8	⊙	3-322	652.7	
13		V		268°36'54"				50	-74.1					V		
14																
15		2340		92°00'				92	+91.4	+93.8	747.6		⊙			
16		V		267°45'59"				50	+92.3					V		
17	N	1120		96°20'				147		-138.4		609.2		SP 323		
18								50		-50		742.4				
19	S	90												6-323		
20																

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STADIA SURVEY NOTES

AREA N.P.C. # 4 STATE or PROVINCE ALASKA PAGE No. 38  
 LINE No.(s) 07 PARTY No. 1195 DATE 3 Day Feb Mo. 1977 Yr. BOOK No. 2  
 SURVEYOR F. DESTARDIS RODMAN C. Rains WEATHER: Very Windy Cold 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		110						08	-0.8	-0.8		746.8	⊙			
3		v		271° 12' 15"				30	-0.7			745.5	v			745.5
4																
5		TAKEOFF FROM STATION T.O.M.								703						
6										Elev		745.5				
7																
8		2300		89° 20'				38	-23.0	-23.5	722.0		Δ			
9		v		270° 43' 49"				60	-24.1				v			
10	N	1760		89° 30'				44		+11.0		733.0		SP	324	
11		0						50		-5.0		717.0		SP	325	
12	S	1760		87° 00'				63		+85.8		807.8		SP	326	
13		2090		87° 04' 08"				50	+101.9	+102.4		824.4	⊙	2	-326	824.8
14		v		273° 06' 27"				60	+103.3				v			
15																
16	N	1430					B	147	+7.2							
17		v		269° 40'				129	+21.0	+21.3	845.9		Δ			
18		0						20	+26.7				v			
19		0						38		-5.0		840.9		SP	327	
19	W	1210		89° 00'				38	+17.3	+17.9		863.8	⊙	6	327	864.1
20		v		271° 06' 20"				50	+18.4				v			

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### STADIA SURVEY NOTES

AREA N.P.K 44 STATE or PROVINCE ALASKA PAGE No. 39  
 LINE No.(s) 07 PARTY No. 1125 DATE 3 Day Feb Mo. 1977 Yr. BOOK No. 2  
 SURVEYOR E. DESTARDIS RODMAN C. Rains WEATHER: Very Windy Cold -45 P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2	N	226							55	+55	+54	863.8			
3				270°25'	47				70	+53					
4		0							-50		-50	864.2		F-329	
5	S	330							71.2	-11.2	-11.1	858.1		SP 328	858.4
6		✓		269°50'	23				100	-109					
7															
8	N	1760		87°00'					63	-85.8	-86.4	771.5			
9		✓		273°09'	50'				70	-87.2					
10		0							50		-50	766.5		SP 329	
11	S	1210		92°40'					73.8		-70.1	701.4		6-325	
12		1760		91°00'					73.5		-44.2	727.3		SP 330	End of 1760 stads
13		2090		91°05'					74.2	-53.7	-52.9	718.6		2-330	
14		✓		268°50'	55				70	-52.0					719.1
15															
16		1760		92°20'					74.1	+85.8	+85.1	803.7			
17		✓		267°34'	40'				70	+84.4					
18		1210		92°50'					74.5		-74.3	729.4		SP 281	
19	N	330					B	150	-1.7		-16.7	707.0		SP 332	
20		0							50		-50	798.7		2-332	

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STADIA SURVEY NOTES

AREA N.P.R.#4 STATE or PROVINCE ALASKA PAGE No. 70  
 LINE No.(s) 07 PARTY No. 1195 DATE 4 Day Fri Mo. 1977 Yr. BOOK No. 3  
 SURVEYOR E. Desjardins RODMAN G. Pains WEATHER: Cold Windy P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. ○F.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												803.7				
2	S	550	/					12		-1.2		802.5		SP	333	
3		945	/					30		-3.0		800.7	-	4	off line 07 L-068E	
4		930				T	54	+4.7		-1.0		802.7		SP	444-Lino 68E	
5		1430	/					86		-8.0		795.7	○	SP	334	796.3
6		✓		270° 06' 01"				100		-2.5			✓			07 803.3
7																68 804.1
8		1760				T	74	-88		-1.4	-2.1	793.6	△			TIE 0.8
9		✓		270° 10'				24		-2.7			✓			W
10	N	880	/					22		-2.2		791.4		SP	335	
11		6						50		-5.0		788.6		SP	336	
12	S	880				T	31	+4.4		+1.3		794.9		SP	337	
13		1165		89° 30'				30		+7.2	+7.4	801.2	○	T.B.M.	704	801.9
14		✓		270° 38' 16"				50		+8.0		801.9	✓			
15																Tie 0.7 Low
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA N.P.R. #4 STATE or PROVINCE ALASKA PAGE No. 41  
 LINE No.(s) 07 PARTY No. 1195 DATE 4 Day FEB Mo. 1977 Yr. BOOK No. 2  
 SURVEYOR R. DESJARDIS RODMAN G. Gains WEATHER: Cold Windy P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. ○I.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1			<u>TAKOFF FROM STATION T.B.M</u>							<u>704</u>						
2									<u>Elev.</u>		<u>801.9</u>					
3	<u>N</u>	<u>275</u>		<u>88°00'</u>				<u>16</u>	<u>-8°</u>	<u>-81</u>	<u>793.8</u>			<u>△</u>		
4		<u>V</u>		<u>272°44'58"</u>				<u>5</u>	<u>-82</u>					<u>▽</u>		
5		<u>0</u>						<u>5</u>		<u>-50</u>		<u>708.8</u>			<u>3-337</u>	
6	<u>S</u>	<u>330</u>		<u>86°30'</u>				<u>14.5</u>		<u>-51.9</u>		<u>741.9</u>			<u>SP 338</u>	
7		<u>1210</u>		<u>85°00'</u>				<u>13.7</u>		<u>-119.3</u>		<u>674.5</u>			<u>SP 339</u>	
8		<u>2090</u>		<u>94°10'</u>				<u>14.4</u>		<u>-166.4</u>		<u>627.7</u>			<u>SP 340</u>	
9		<u>2970</u>		<u>93°45'</u>				<u>14.5</u>	<u>-208.9</u>	<u>-207.7</u>		<u>586.1</u>		<u>⊙</u>	<u>SP 341</u>	<u>586.3</u>
10		<u>V</u>		<u>266°12'28"</u>				<u>10.0</u>	<u>-206.5</u>					<u>▽</u>		
11																
12		<u>1210</u>		<u>85°50'</u>				<u>5.5</u>	<u>-82.5</u>	<u>-82.9</u>	<u>503.2</u>			<u>△</u>		
13		<u>V</u>		<u>274°25'07"</u>				<u>10.0</u>	<u>-83.3</u>					<u>▽</u>		
14	<u>N</u>	<u>330</u>		<u>86°30'</u>				<u>2.9</u>		<u>+17.3</u>		<u>520.5</u>			<u>SP 342</u>	
15		<u>0</u>						<u>5.0</u>		<u>-5°</u>		<u>498.2</u>			<u>2-342</u>	
16	<u>S</u>	<u>550</u>		<u>91°40'</u>				<u>14.8</u>		<u>-30.8</u>		<u>472.4</u>			<u>SP 343</u>	
17		<u>1660</u>		<u>91°50'</u>				<u>14.6</u>		<u>-35.7</u>		<u>467.5</u>			<u>1-343</u>	
18		<u>1430</u>								<u>+3.1</u>		<u>506.3</u>			<u>SP 344</u>	
19		<u>2310</u>		<u>88°20'</u>			<u>T 4'</u>			<u>+59.2</u>		<u>562.9</u>			<u>SP 345</u>	
20																

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### STADIA SURVEY NOTES

AREA N.P.R. #4 STATE or PROVINCE ALASKA PAGE No. 92  
 LINE No.(s) 07 PARTY No. 1125 DATE 4 Day FEB Mo. 1997 Yr. BOOK No. 2  
 SURVEYOR R. DESTARNAIS RODMAN R. DUSTARLOK WEATHER: Cold Windy P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. ⊙P.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2		2420		88°25'				15	+65.4	+126.3		569.5	⊙	1-345	570.0	
3		✓		271°42'30"				5.0	+67.2				✓			
4																
5	N	770		86°50'				10.3	-32.3	-32.5	537.0		Δ			
6		✓		213°24'20"				13.0	-32.8				✓			
7		0						5.0		-5.0	532.0			SP 346		
8	S	880		92°50'				13.2		-56.7	480.3			SP 347		
9		1760		92°50'				12.6		-99.6	437.4			SP 348		
10		2640		92°30'				13.3		-128.5	408.5			SP 349		
11		3520						14.1	-14.1	-12.8	524.2		⊙	SP 350	525.0	
12		✓		269°58'34"				10.0	-11.5				✓			
13																
14	N	550		92°50'				13.8	+41.0	+40.8	565.0		Δ			
15		✓		266°48'29"				10.0	+40.6				✓			
16		0						5.0		-5.0	560.0			3-350		
17	S	330						6.4		-6.4	558.6			SP 351		
18		440						12.1	-12.1	-11.9	553.1		⊙	1-351	554.0	
19				269°45'57"				10.0	-11.8				✓			
20																

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STADIA SURVEY NOTES

AREA N-RR#4 STATE or PROVINCE ALASKA PAGE No. 43  
 LINE No.(s) 07 PARTY No. 1195 DATE 7 Day Feb Mo. 1977 Yr. BOOK No. 0  
 SURVEYOR R. DESTARNO RODMAN C. Cains WEATHER: Cold 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															
2	N 720			86°00'				63	-47.4	-47.7	505.4	553'			
3	V			219°18'32'				100	-47.9						
4	0							60		-50		500.4		SP 352	
5	S 556			92°50'				146		-41.8		463.6		3-352	
6	880			91°10'				114		-29.3		476.1		SP 353	
7	1760			88°50'				29		+32.9		538.3		SP 354	
8	2640			87°35'				48	+108.5	+107.5		612.9		SP 355	614.0
9	V			272°34'15				100	+108.4						
10															
11		1650		93°24'02'				150	+112.9	+112.4	725.3				
12	V			266°29'54				110	+111.8						
13	N 770			92°46'				149		-50.7		574.6		SP 356	674.6
14	0							50		-50		720.3		B-356	
15	S 110			89°00'				1.7		+0.2		725.5		SP 357	
16	580			88°46'				29	+10.6	+10.8		736.1		T.B.M 705	
17	V			271°35'05'				50	+11.0			737.4			737.4
18															
19															
20															

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**STADIA SURVEY NOTES**

AREA N.P.C#4 STATE or PROVINCE ALASKA PAGE No. 49  
 LINE No.(s) 07 PARTY No. 1195 DATE 5 Day Feb Mo. 1977 Yr. BOOK No. 2  
 SURVEYOR R. J. ESTABLAIS RODMAN G. Pains WEATHER: Cold Wind P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD		
1			<u>TAKEOFF FROM STATION T.B.M.</u>							<u>Elev</u>	<u>705</u>	<u>737.4</u>			
2															
3															
4		<u>526</u>						<u>68</u>	<u>+68</u>	<u>+64</u>	<u>744°</u>				
5		<u>V</u>		<u>270°10</u>			<u>79</u>	<u>+64</u>					<u>Δ</u>		
6	<u>N</u>	<u>110</u>					<u>34</u>		<u>-34</u>		<u>740.6</u>		<u>SP</u>	<u>358</u>	
7		<u>0</u>					<u>50</u>		<u>-50</u>		<u>739°</u>		<u>L</u>	<u>358</u>	
8	<u>S</u>	<u>660</u>		<u>92°00'</u>			<u>15°</u>	<u>-32°</u>	<u>-37.8</u>		<u>706.2</u>	<u>⊙</u>	<u>A</u>	<u>358 ✓</u>	
9		<u>V</u>		<u>267°36'23'</u>			<u>10°</u>	<u>-37.4</u>					<u>✓</u>		
10															
11		<u>1870</u>		<u>86°30'</u>			<u>18</u>	<u>-112.4</u>	<u>-113°</u>		<u>593.2</u>		<u>Δ</u>		
12		<u>V</u>		<u>273°38'04</u>			<u>5°</u>	<u>-113.4</u>					<u>✓</u>		
13		<u>1760</u>		<u>96°20'</u>			<u>2°</u>		<u>+104.5</u>		<u>697.7</u>		<u>SP</u>	<u>359</u>	
14	<u>N</u>	<u>880</u>		<u>82°40'</u>			<u>32</u>		<u>+32.4</u>		<u>625.8</u>		<u>SP</u>	<u>360</u>	
15		<u>0</u>					<u>5°</u>		<u>-5°</u>		<u>588.2</u>		<u>SP</u>	<u>361</u>	
16	<u>S</u>	<u>880</u>		<u>94°10'</u>			<u>12.9</u>		<u>-76.9</u>		<u>516.3</u>		<u>SP</u>	<u>362</u>	
17		<u>990</u>		<u>94°00'</u>			<u>12.3</u>	<u>-82.4</u>	<u>-82'</u>		<u>511.1</u>	<u>⊙</u>	<u>L</u>	<u>362 511.0</u>	
18		<u>V</u>		<u>265°50'51</u>			<u>10°</u>	<u>-81.7</u>					<u>✓</u>		
19															
20															

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## STADIA SURVEY NOTES

AREA N.P. #4 STATE or PROVINCE ALASKA PAGE No. 45  
 LINE No.(s) 07 PARTY No. 1195 DATE 5 Day FEB Mo. 1977 Yr. BOOK No. 2  
 SURVEYOR R. DESJARDIS RODMAN B. POINS WEATHER: Cold Windy P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	-BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. ○F.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2		1980		86°20'				15	-125.2	-125.8	385.3	511.1		△		
3		✓		273°48'09"				50	-126.4					✓		
4		1200		82°50'				55		+39.9		425.2			SP	368
5		440		92°06'				140		-29.4		355.9			4	-363
6	N	325		91°20'				141		-22.2		363.1			SP	364
7		0						50		-5.0		380.3			2	-364
8	S	550		92°00'				119		-31.1		354.2			SP	365
9		1430		88°40'				20		+31.3		416.6			SP	366
10		2310		88°30'				71		+53.4		438.4			SP	367
11		2860		88°36'11"				50	+64.7	+65.6		450.9		○	3	-367
12		✓		271°31'59"				160	+66.5					✓		450.6
13																
14		2090		91°25'				137	+65.4	+64.7	515.4			△		
15		✓		268°21'12"				100	+64.0					✓		
16		1760		91°40'				124		-63.6		452.0			SP	368
17	N	880		91°50'				141		-42.3		472.3			SP	369
18		0						50		-5.0		510.4			SP	370
19	S	880		87°50'				06		+32.7		548.3			SP	371
20																

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**STADIA SURVEY NOTES**

AREA N.P. #4 STATE or PROVINCE ALASKA PAGE No. 46  
 LINE No.(s) 07 PARTY No. 1195 DATE 5 Day FEB Mo. 1977 Yr. BOOK No. 2  
 SURVEYOR E. DESTORIAIS RODMAN G. Lains WEATHER: Cold Windy P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. ○F.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												515.4				
2		1760		86°50'					47	+92.6		608.2		SP 372		
3		1870		86°50'					89	+94.4	+95.0	610.4	⊙	1-372		610.2
4		✓		272°14'	08				100	+95.4			✓			
5																
6		1100							88	+8.8	+8.5	619.1	Δ			
7				270°05'	44'				100	+8.2			✓			
8	N	330							65		-6.5	612.4		SP 373		
9		0							50		-5.0	614.1		2-373		
10	S	550		91°40'					14'		-30.1	589.0		SP 374		
11		1100		91°26'					13'		-38.7	580.4		3-374		
12		1430				T	25	+7.2			+4.5	623.6		SP 375		
13		2310		87°30'					72		+93.6	712.2		SP 376		
14		3190		87°20'					12	+147.3	+148.3	767.4	⊙	SP 377		766.9
15		✓		272°46'	16'				50	+149.3			✓			
16																
17		2310		93°06'					127	+137.0	+136.4	903.8	Δ			
18	Checked in field	2310		266°03'	06'	246°	52'	39	✓	100	+135.9		✓			
19		1430		93°00'					133		-88.2	815.6		SP 378		
20	W	550		42°16'					145		-35.3	868.5		SP 379		

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**STADIA SURVEY NOTES**

AREA N.P.B#4 STATE or PROVINCE ALASKA PAGE No. 47  
 LINE No.(s) 07 PARTY No. 1195 DATE 5 Day FEB Mo. 1977 Yr. BOOK No. R  
 SURVEYOR R. DESARLAIS RODMAN G. BINS WEATHER: Cold Windy 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												903.8				
2		0							5 <sup>0</sup>	-50		898.8			3-379	
3	S	330		80° 10'					15	+91		912.9		SP	380	
4		1210		87° 30'					45	+483		952.1		SP	381	
5		2090		87° 30'					30	+882		9920		SP	382	
6		2990		82° 28' 30"					50	+1302		1034.0		SP	383	
7		3020		82° 24' 42"					70	+129.4	+130.4	1034.2	⊙		18m 706	
8		v		272° 41' 03"					100	+131.5		1033.5	v			1033.5
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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### STADIA SURVEY NOTES

AREA H.P.R. #4 STATE or PROVINCE Alaska PAGE No. 48  
 LINE No.(s) 07 PARTY No. 1195 DATE 6 Day FEB Mo. 1977 Yr. BOOK No. 2  
 SURVEYOR C. DESTADLAIS RODMAN G. Rains 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		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1			<u>TAKEN FROM STATION T.B.M. 706 Elev.</u>								<u>1033.5</u>					
2																
3	<u>N</u>	<u>830</u>		<u>88°00'</u>				<u>79</u>	<u>-21.5</u>	<u>-21.8</u>	<u>1011.7</u>			<u>Δ</u>		
4		<u>V</u>		<u>272°12'33"</u>				<u>10 0</u>	<u>-22 0</u>					<u>∇</u>		
5		<u>0</u>						<u>5 0</u>		<u>-5 0</u>		<u>1006.7</u>			<u>SP 384</u>	
6	<u>S</u>	<u>880</u>		<u>92°20'</u>				<u>13 0</u>		<u>-48.8</u>		<u>962.9</u>			<u>SP 385</u>	
7		<u>1210</u>		<u>92°40'</u>				<u>14.4</u>	<u>-70.7</u>	<u>-70.4</u>		<u>941.3</u>	<u>○</u>	<u>2-385</u>	<u>941.4</u>	
8		<u>V</u>		<u>267°09'15"</u>				<u>10 0</u>	<u>-70 1</u>					<u>∇</u>		
9																
10		<u>1430</u>		<u>86°45'20"</u>				<u>5 0</u>	<u>-76 0</u>	<u>-76.3</u>	<u>865 0</u>			<u>Δ</u>		
11		<u>V</u>		<u>233°28'21"</u>				<u>10 0</u>	<u>-76 7</u>					<u>∇</u>		
12	<u>N</u>	<u>880</u>		<u>87°10'</u>				<u>3.2</u>		<u>140.3</u>		<u>905.3</u>			<u>SP 386</u>	
13		<u>0</u>						<u>5 0</u>		<u>-5 0</u>		<u>860 0</u>			<u>SP 387</u>	
14	<u>S</u>	<u>880</u>		<u>90°40'</u>				<u>14.2</u>		<u>-24.4</u>		<u>840 6</u>			<u>SP 388</u>	
15		<u>1760</u>		<u>91°00'</u>				<u>10 0</u>		<u>-70.7</u>		<u>824.3</u>			<u>SP 389</u>	
16		<u>2140</u>		<u>90°25'</u>				<u>13.2</u>	<u>-32.4</u>	<u>-31.7</u>		<u>833.3</u>	<u>○</u>	<u>SP 390</u>	<u>833.5</u>	
17		<u>V</u>		<u>269°32'45"</u>				<u>10 0</u>	<u>-30.9</u>					<u>○</u>		
18																
19		<u>2640</u>		<u>89°30'</u>				<u>7.3</u>	<u>-15.7</u>	<u>-16.5</u>	<u>816.8</u>			<u>Δ</u>		
20		<u>V</u>		<u>270°35'34"</u>				<u>10 0</u>	<u>-17.3</u>					<u>∇</u>		

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**STADIA SURVEY NOTES**

AREA N.P.R#4 STATE or PROVINCE ALASKA PAGE No. 29  
 LINE No.(s) 07 PARTY No. 1195 DATE 6 Day FEB Mo. 1977 Yr. BOOK No. 2  
 SURVEYOR E. DESJARDINS RODMAN E. Paine 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		▲B.S. ○F.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1												816.8				
2		1760		89°30'				186		+1.8		818.4		SP	391	
3	N	880		89°30'				88		-1.1		815.7		SP	392	
4		0						50		-5.0		811.8		SP	393	
5	S	880						63		-6.3		810.5		SP	394	
6		1760		89°54'01"				150		-11.9		804.9		SP	395	
7		2640		89°25'				24	+16.8	+17.4		834.4	⊙	SP	396	834.8
8		V		270°30'36"				50	+18.5				✓			
9																
10		990		92°10'				126	+50.0	+49.7		884.1	Δ			
11		V		267°43'08"				100	+49.4				✓			
12	N	110						68		-6.8		877.3		SP	397	
13		0						50		-5.0		879.1		1	397	
14	S	770						88		-8.8		875.3		SP	398	
15		1320				B	122	-6.4		-18.8	-18.3	865.8	⊙	3	398	866.2
16		V		269°39'19"				100		-17.9			✓			
17																
18		1760		89°02'23"				50	-24.5	-25.0		840.8	Δ			
19		V		271°09'20"				100	-25.5				✓			
20		1430		89°38'				24		+10.1		850.9		SP	399	

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**STADIA SURVEY NOTES**

AREA N.P.P. #4 STATE or PROVINCE ALASKA PAGE No. 50  
 LINE No.(s) 07 PARTY No. 1195 DATE 6 Day FEB Mo. 1977 Yr. BOOK No. 2  
 SURVEYOR P. DEBARRAIS RODMAN G. Paine 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		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												840.8				
2	N	550				T	4.9	+2.8			-2.1	838.7		SP	400	
3		0							5.0		-5.0	835.8		3	-400	
4	S	330		91°40'					14.5		-24.1	816.7		SP	401	
5		1100		93°40'					14.5		-84.9	755.9		<del>SP</del>	402, 4-401	
6		1210		93°10'					13.6		-80.5	760.3		SP	402	
7		2090		92°10'					9.0		-88.0	752.8		SP	403	
8		2970		91°45'					14.1	-104.8	-103.9	736.9	D	SP	404	737.5
9		✓		268°12'24"					10.0	-103.0			✓			
10																
11		2970		92°50'					14.7	+161.6	+160.7	897.6		Δ		
12		✓		267°06'39"					10.0	+159.7			✓			
13		2090		94°20'					14.7		-172.7	724.9		SP	405	
14		1210		94°30'					13.7		-108.7	788.9		SP	406	
15	N	330		93°20'					14.4		-33.6	864.0		SP	407	
16		0							5.0		-5.0	892.7		2	-407	
17		290		89°30'					18	+0.7	+0.8	898.4		T. P. M. 707		
18		✓		270°09'50"					5.0	+0.9		899.1	✓			899.1
19												700 0.7 Low				
20																

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### STADIA SURVEY NOTES

AREA 11.064 STATE or PROVINCE ALASKA PAGE No. 57  
 LINE No.(s) 07 PARTY No. 1195 DATE 6 Day FEB Mo. 1977 Yr. BOOK No. 3  
 SURVEYOR E. DESARLAIS RODMAN G. ROINS WEATHER: 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			<u>TAKEOFF FROM STATION T.B.M. No</u>							<u>707.</u>					
2										<u>Elev.</u>		<u>899.1</u>			
3															
4		<u>810</u>		<u>88° 35' 44"</u>					<u>50</u>	<u>-149</u>	<u>-139</u>	<u>885.2</u>		<u>Δ</u>	
5		<u>✓</u>		<u>271° 32' 21"</u>					<u>100</u>	<u>-130</u>				<u>✓</u>	
6	<u>N</u>	<u>550</u>		<u>88° 50'</u>					<u>28</u>		<u>+84</u>	<u>893.6</u>		<u>SP 408</u>	
7		<u>0</u>							<u>50</u>		<u>-50</u>	<u>880.2</u>		<u>3 -408</u>	
8	<u>S</u>	<u>330</u>		<u>90° 30'</u>					<u>143</u>		<u>-172</u>	<u>860.0</u>		<u>SP 409</u>	
9		<u>1210</u>		<u>91° 50'</u>					<u>124</u>		<u>-57.1</u>	<u>834.1</u>		<u>SP 410</u>	
10		<u>2690</u>		<u>92° 00'</u>					<u>127</u>		<u>-86.7</u>	<u>799.5</u>		<u>SP 411</u>	
11		<u>2970</u>		<u>91° 25'</u>					<u>139</u>	<u>-87.3</u>	<u>-86.5</u>	<u>798.2</u>		<u>SP 412</u>	<u>799.1</u>
12		<u>✓</u>		<u>268° 32' 27"</u>					<u>100</u>	<u>-85.6</u>				<u>✓</u>	<u>798.5</u>
13															
14		<u>2640</u>				<u>T</u>	<u>4'</u>	<u>-13.2</u>		<u>-9.1</u>	<u>-9.7</u>	<u>789.0</u>		<u>Δ</u>	
15		<u>✓</u>		<u>270° 20' 03"</u>					<u>50</u>	<u>-10.4</u>				<u>✓</u>	
16		<u>1760</u>							<u>93</u>		<u>-93</u>	<u>779.7</u>		<u>SP 413</u>	
17	<u>N</u>	<u>880</u>							<u>84</u>		<u>-84</u>	<u>780.0</u>		<u>SP 414</u>	
18		<u>0</u>							<u>50</u>		<u>-50</u>	<u>784.0</u>		<u>SP 415</u>	
19	<u>S</u>	<u>880</u>				<u>T</u>	<u>6'</u>	<u>+4.4</u>			<u>-1.7</u>	<u>787.3</u>		<u>SP 416</u>	
20															

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### STADIA SURVEY NOTES

AREA N. 124 STATE or PROVINCE ALBERTA PAGE No. 52  
 LINE No.(s) 07 PARTY No. 1195 DATE 6 Day FEB Mo. 1977 Yr. BOOK No. 2  
 SURVEYOR E. Desjarlais RODMAN C. Lums WEATHER: Windy Cold P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1											788.9			SR 52 program used C&R inc. SW
2		1210				T	137	6.1	-7.6	-7.3		781.6	2-416	
3		✓		270°08'29"					-7.0				782.3	
4														
5		1100		84°40'						93.7	687.8			
6		✓		275°25'44"										
7	N	550		84°40'								736.9	SP 417	
8		0										682.8	3-417	
9	S	330		94°20'								649.4	2P 418	
10		800		95°30'								590.0	3-418	
11		1210		92°50'								613.9	SP 419	
12		2090				T	2.1					696.1	SD 420	
13		2640		89°30'						+17.3		705.2	3-420	706.3
14				270°26'43"										
15														
16		3520		92°00'							135.9	841.1		
17		✓		267°58'15"										
18		2990		92°20'								708.2	SP 421	
19		2310		92°50'								717.5	SD 422	
20		1430		92°50'								756.3	SP 423	

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## STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE ALASKA PAGE No. 53  
 LINE No.(s) 07 PARTY No. 1195 DATE 11 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R DESJARDIS, RODMAN, G. TRAINS WEATHER: SUNNY -10° P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hoir Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	N	550		93°10'					15°			795.7			SP	424
3		0							5°			836.1			3	424
4	S	330		87°30'					2'			841.9			SP	425
5		1210		88°50'					36			862.1			SP	426
6		1320		88°50'24"					50	22.0		863.1	0		1	426 864.7
7		V		271°24'28"					100					0		
8																
9	N	660							105	17.3	873.4			Δ		
10		V		269°50'					82					Δ		
11		0							50			868.4		✓	4	426
12	S	110							20			864.4			4	426 427
13		990		91°10'					148			838.4			SP	427 428
14		1820		91°00'					108			829.9			SP	428 429
15		1980		91°00'					141					0	SP	429 1-429
16		V		268°54'37"					10°	42.8		825.2	0		1	429 827.0
17														✓		
18																
19																
20																

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### STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE ALASKA PAGE No. 54  
 LINE No.(s) 07 PARTY No. 1195 DATE 11 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR SPRAGUE RODMAN G. RAINS. WEATHER: WINDY - 10° P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2															
3	N	2530		85° 53' 46"				3.0	192.6			631.4		Δ	
4	✓			87° 32' 03"				5.0						CHK	
5		1760		85° 51' 33"				1.0				757.5		430	
6		880		86° 53' 27"				4.0				675.2		431	
7		0						5.0				626.4	κ	432	
8		880		74° 44' 02"				14.0				544.8		433	BOTTOM DRAW.
9		1760		89° 42' 00"				1.0				639.6		434	
10	S	2640		88° 25' 44"				2.0	70.2	71.3		702.8	0	435	705.1
11	✓			87° 38' 24"				3.0						CHK.	✓
12	N	2090		95° 01' 19"				14.0	197.0	196.1		898.9		Δ	
13	✓			86° 00' 00"				13.0						CHK.	✓
14		1210		95° 22' 54"				14.0				771.4		436	
15		330		74° 35' 14"				14.0				858.5		437	
16		0						5.0				893.9	κ	GP 2	
17	S	550		87° 52' 16"				10.0	10.4	10.7		909.6	0	438	✓ 912.2
18	✓			87° 15' 56"				11.0						CHK.	
19															
20															

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## STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE ALASKA PAGE No. 55  
 LINE No.(s) 07 PARTY No. 1195 DATE 11 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. TRAINS WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲ B.S. ○ F.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	N 170	✓						4.6				914.1		Δ		
3	✓			267 50 00				4.0						CHK.		✓
4	0							5.4				908.7	○			TBM 708
5												911.3				911.3
6												TIE.	2.6			
7	0							5.4			154	916.7	Δ			T.O. TBM 708.
8	261	715	✓			B	15.0	3.5	18.5			898.2		Δ	439	
9	591 S	1040		90 58 20					14.0	31.7	31.2		885.5	○	GP2	✓
10	✓			267 01 35					13.0	30.7				CHK.		
11	N 880			87 02 10					10.0	35.5	35.8	849.8		Δ		
12	✓			273 05 49					11.0	36.5				CK		
13	330			87 28 34					1.0				862.8		440	
14	0								5.0				844.8	×	GP2	
15	550			94 58 55					14.0				787.5		441	
16	S 880			75 38 24					14.0	100.5	100.2		749.6	○	SP2	✓
17	✓			264 20 15					13.0	99.9				CHK		
18																
19																
20																

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## STADIA SURVEY NOTES

AREA N.P.R. #4 STATE or PROVINCE ALASKA PAGE No. 56  
 LINE No.(s) 07 PARTY No. 1195 DATE 11 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINS WEATHER: SUNNY -10° P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲ B.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD				
1																	
2	N 1740	✓				B	7.3	8.7	16.0	+16.0	+15.8	765.5		Δ			ADJ. INST.
3	✓		270°00'00"			B	5.9	8.7	13.6	+15.6				CHK			
4	1200		94°04'31"						14.0			666.2			442		
5	890		98°21'42"						14.0			622.0			GP2	BOTTOM DRAW	
6	330		98°27'00"						14.0			704.9			443		
7	0								5.0			760.5		⊗	GP2		
8	S 560		85°17'23"						11.0	+35.0	+35.0	800.4		○	444		
9	✓		274°48'35"						12.0	+35.0				CHK			
10	N 880	✓				B	11.3	4.4	15.7	+15.7	+15.7	816.1		Δ			
11	✓		269°53'25"						14.0	+15.7				CHK			
12	0								5.0			811.1		⊗	445		
13	880		90°22'42"						14.0			796.3			446		
14	1760		70°30'37"						14.0			786.4			447		
15	S 2310	✓	<del>267°47'11"</del>			B	11.1	11.6	22.7	-22.7	-22.7	793.4		○	GP3		
16	✓		269°47'16"						14.0	-22.6				CK.			
17																	
18																	
19																	
20																	

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## STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE ALASKA PAGE No. 57  
 LINE No.(s) 07 PARTY No. 1195 DATE 11 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINS WEATHER: SUNNY -10° P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2	N	1100	✓					1.7	+1.7	+16		795.1	Δ		
3		✓		270 04 24				3.0	+1.6				CHK.		
4		770		90 34 08				14.0				773.4		448	
5		440		92 38 41				15.0				759.8		GP2	
6		0						5.0				790.1	κ	GP4	
7		110	✓					10.5				784.6		449	
8	S	440		93 46 41				14.0	43.0	-43.0		752.1	○	GP2	
9		✓		266 05 00				13.0	42.9				CHK.		
10	N	1320		90 48 08				14.0	32.5	32.5		784.6	Δ		19'
11		✓		269 09' 19"				13.0	32.5				CHK.		
12		770		95 00 00				14.0	81.1			703.5		450	BOTTOM DRAW.
13		0						5.0				779.6	κ	GP4	T.P.
14		110	✓					7.2				777.4		451	
15	S	880		92 47 40				14.0	57.0	56.9		727.9	○	GP4	
16		✓		267 08 30				13.0					CHK.		
17	N	2740		86 55 20				1.0	146.0	146.1		581.5	Δ		
18		✓		273 07 35				3.0	146.5				CHK.		
19		2640		86 57 45				2.0				719.3		452	
20															

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STADIA SURVEY NOTES

AREA NPR # 4 STATE or PROVINCE ALASKA PAGE No. 58  
 LINE No.(s) 07 PARTY No. 1195 DATE 11 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. PAINE WEATHER: SUNNY -10° P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadio 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		1760		87°21'24"					1.0				661.6		453	
4		880		88°14'58"					5.0				603.4		45A	
5		0							5.0				576.5	X	455	
6		880	✓			B	13.7	4.4	18.1				563.4		456	
7		1760	✓			B	13.4	8.8	22.2				559.3		457	
8	S	2640	✓			B	6.9	13.2	20.1	-20.1	-20.0		561.4	○	458	
9		✓		269°58'26"					14.0	-19.8				CHK		
10	N	2640	✓						8.4	+8.4	+8.2	569.8		△		
11		✓		269°57'19"					6.0	+8.1				CHK		
12		1760	✓						5.5				564.3		459	
13		880	✓						4.7				565.1		460	
14		0							5.0				564.8	X	461	
15		880	✓						7.4				562.4		462	
16		1760	✓						10.1				559.7		463	
17	S	2640	✓						5.2	-5.2	-5.3		564.5	○	464	
18		✓		270 00 00					5.1	-5.1				CHK		
19																
20																

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## STADIA SURVEY NOTES

AREA N P R # A STATE or PROVINCE ALASKA PAGE No. 59  
 LINE No.(s) 07 PARTY No. 1195 DATE 11 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR SPRAGUE RODMAN G. RAINS. WEATHER: SUNNY -10° P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	N 2640	✓							5.4	+5.4	+5.3	569.9		△		
3	✓			270 01 04'					6.0	+5.2				CHK.		
4	1760	✓							6.5			563.4			465	
5	880	✓							6.6			563.3			466	
6	0								5.0			564.9		κ	467	
7	880	✓							3.4			566.5			468	
8	1760	✓							2.0			567.9			469	
9	S 2640	✓				T	13.4	13.2	-0.2	-0.2	-0.0	569.8		○	470	
10	✓			270 06 43					5.0	+0.2				CHK.		
11	N 2640	✓							7.8	+7.8	+8.0	577.9		△		
12	✓			270 00 00					8.2	+8.2				CHK.		
13	1760	✓							9.8			568.1			471	
14	880	✓							7.6			570.3			472	
15	0								5.0			572.9		κ	473	
16	880	✓							5.7			572.2			474	LK. SKID 330' S.
17	1760	✓				T	8.2	8.8	+0.6			578.5			475	
18	S 2640	✓				T	5.6	13.2	+7.6		+7.6	585.5		○	476	
19	✓			270 00 00		T	5.5	13.2	+7.7					CHK.		
20																

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## STADIA SURVEY NOTES

AREA N.P.R. #4 STATE or PROVINCE ALASKA PAGE No. 60  
 LINE No.(s) 07 PARTY No. 1195 DATE 11 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINS. WEATHER: SUNNY -10° P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
1															
2	N	2090		93 28 05				14.0	+140.5	+140.6	726.1		Δ		
3	✓			266 30 05				13.0	+140.6				CHK		
4		1210		94 53 21"				14.0			608.9		477		
5		330		94 31 42				14.0			686.0		478		ON HILL.
6		0						5.0			721.1	κ	GP2		
7		550		86° 22' 00				1.0			759.9		479		
8	S	1320		85 17 29				5.0	+103.3	+103.3	829.4	○	GP4		
9	✓			274 47 36				7.0	+103.4				CK		
10	N	880		94 13 27				14.0	+78.8	78.8	908.1		Δ		
11	✓			265 42 56				13.0	+78.8				CK		
12		770		94 52 52				14.0			828.6		480		
13		0						5.0			903.1	κ	GP4		
14		110		85 56 32				2.0			913.9		481		
15		990		85 04 30				1.0	+84.1		992.7		482		991.7 from
16		1320		85 02 20				6.0	+108.1		1016.3	○	GP2		Δ 710 p 62
17	S	✓		275 00 33				7.0					CHK		
18	N	550	✓					8.4		+8.4	1024.7		Δ		
19	✓			270 10 48				10.0					CK		
20															

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**STADIA SURVEY NOTES**

AREA NPR 4 STATE or PROVINCE ALASKA. PAGE No. 61  
 LINE No.(s) 07 PARTY No. 1195 DATE 12 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR J. SPRAGUE RODMAN G. RAINS. WEATHER: -50° 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		0							5.0				1019.7		483	
3		880		91 56 11					15.0				979.9		484	
4		1760		91 46 40					15.0				955.0		485	
5	S	2640		91 26 27					15.0	81.5			943.4	0	486	
6		✓		868 34 09					15.0					CK.		
7	N	880		89 11 37					7.0	5.4		938.0		Δ		
8		✓		870 48 30					7.0					CK.		
9		0							5.0				933.0		487	
10		880		93 30 25					14.0				870.1		488	
11		1760		93 38 48					15.0				811.0		488	
12	S	2640		92 55 08					14.0				789.5	0	490	LAST SP.
13		✓		867 05 04					14.0					CK		No TAIL SPREAD.
14																
15																
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA NPR #4 STATE or PROVINCE ALASKA PAGE No. 62  
 LINE No.(s) 07 PARTY No. 1195 DATE 14 Day 2 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR SPRAGUE RODMAN G. PAINE 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. ○F.S. -S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1																	
2		0															
3		65225		88°32'01"						163.1	+163.9		797.1	960.1	△	481+550.	
4		'		271°28'48"						164.7					✓		
5																	MEAN 961.6
6		0													△		
7		65225		91°30'13"										788.0	○	710 (3.1 TIE)	
8		✓		268°29'56"											✓		
9																	
10																	
11																	961.6
12		0													△	481+550.	
13		330		85°31'15"						21.8				990.2	○	482	991.7
14														992.1			TIE 0.4
15																	TIE 21 REF PAGE 60.
16																	
17																	
18																	
19																	
20																	

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