

**STADIA SURVEY NOTES**

AREA Ikpiqruk - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 1  
 LINE No.(s) KD-91 PARTY No. 1182 DATE 5 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR K.P. 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		AB S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD				
1																	
2																	
3																	
4	Sp 53-to-			89°35'40"													
5	Sp 45+825	11381.47		270°24'10"													
6			Az.	186°16'02"									261.22	⊙	95+825	260.3	
7	Sp 45+825			90°25'11"													
8	to-Sp 53	11281.47		269°34'22"													Avg. Lat. 69°54'00"
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

TI-588B

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**STADIA SURVEY NOTES**

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 2  
 LINE No.(s) KD-91 PARTY No. 1182 DATE 4 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. B. ALLEN RODMAN T. VAN ALLEN WEATHER: Snow & Cloudy P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												261.22		45+825	
2	T	0						5.5					Δ		
3	N	10065		90°26' 49"		C		14.3				174		52	
4	"	8745		90°28' 10"		C		28.0				167		51	
5	"	7425		90°26' 40"		C		28.2				181		50	
6	"	6105		90°23' 49"		C		14.3				210		49	
7	"	4785		90°47' 50"		C		14.3				186		48	
8	"	3465		90°59' 00"		C		14.3				193		47	
9	"	2145		91°01' 48"		C		18.5				210		46	
10	N	825		90°34' 02"		C		14.3				244		45	
11	T	0						5.5				261		45+825	
12	S	495	-			C		5.0				262		44	
13	"	1815		90°12' 30"		C		23.6				237		43	
14	"	3135		90°16' 40"		C		27.5				224		42	
15	"	4455		90°09' 07"		C		28.1				227		41	
16	"	5775		90°11' 26"		C		27.2				220		40	
17	"	7095		90°09' 03"		C		14.3				234		39	
18	"	8415		90°05' 26"		C		14.3				239		38	
19	"	9735		89°58' 05"		C		14.3				258		37	
20	"	11055		89°59' 54"		C		14.3				253		36	

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*R. B. Allen*

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**STADIA SURVEY NOTES**

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 3  
 LINE No.(s) K.D.-91 PARTY No. 1182 DATE 4 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. E. ALLEN RODMAN T. 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												261.22			45+825	
2	S	12.375		89°59'58"		C						239			35	
3																
4	Sp 45+825	16.199 <sup>98</sup>		89°55'24"			89°55'41"									
5	to-Int.			270°04'02"					5.5							286.3
6			Az.	186°16'02"								287.41		0		Sp 307+1205-L-93 Int. Sp 33+1190-L-91 Avg. Lat. 69°50'30"
7	Int. -to-			90°06'35"			90°06'48"									
8	Sp 45+825	16.199 <sup>98</sup>		269°53'00"					5.5							
9																
10	N	0							5.5			292.9		Δ		
11	N	2510		90°55'00"		C			23.5			229			34	
12	"	1190		90°45'38"		C			14.5			263			33	
13	N	0							5.5			287.41			Int.	Above ↑ Pipe Marker
14	S	130	-			C			5.5			288			32	
15	"	1450		88°42'36"		C			6.0			320			31	
16	"	2770		88°42'36"		C			10.4			345			30	
17	"	2934 <sup>09</sup>	D	88°44'14"		C			5.5						30+165	
18	"	"	R	271°15'26"		C			5.5			352.1	0	"	"	350.9
19																
20																

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**STADIA SURVEY NOTES**

AREA Ikpik park - Key Creek STATE or PROVINCE North Slope Alaska PAGE No. 4  
 LINE No.(s) KD-91 PARTY No. 1182 DATE 4 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. R. 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		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																
4												352.1			30+165	
5	K	0							5.5			357.6		Δ		
6	S	1155		89°28'06"		C			3.0			365			29	
7	"	2475		" " "		C			6.5			376			28	
8	"	2774.14	D	89°28'56"		C			5.5						28+300	
9	"	"	R	270°30'30"		C			5.5			377.1	0		" "	375.9
10	K	0							5.5					Δ		
11	S	1020		90°17'16"		C			10.0			367			27	
12	"	2340		90°26'23"		C			14.3			350			26	
13	"	3660		90°31'25"		C			14.3			355			25	
14	"	4980		90°28'27"		C			14.3			327			24	
15	"	6300		90°29'58"		C			14.3			313			23	
16	"	7620		90°27'48"		C			14.3			307			22	
17	"	8940		90°25'08"		C			14.3			303			21	
18	"	10260		90°24'50"		C			14.3			294			20	
19	"	11580		90°20'29"		C			14.3			299			19	
20	"	11715		90°23'12"		C			14.3			289			19+165	

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**STADIA SURVEY NOTES**

AREA Ikpikupuk - Key Creek STATE or PROVINCE North Slope PAGE No. 5  
 LINE No.(s) KD-91 PARTY No. 1183 DATE 5 Day 4 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R.P. 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																
2												299			19	
3	$\nearrow$	0												$\Delta$		
4	S	3135		90°27'	20"	C						265			17+495	
5	"	2805		90°59'	51"	C						241			17+165	
6	"	2640		91°12'	04"	C						235			17	
7	"	1320		92°02'	25"	C						243			18	
8	"	825		93°17'	08"	C						243			19+825	
9	"	495		92°48'	31"	C						257			19+495	
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA Ikpikpak-Key Creek STATE or PROVINCE North Slope Alaska PAGE No. 6  
 LINE No.(s) KD-91 PARTY No. 1182 DATE 4 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR R. 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		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 28+300			90°15' 29"			90°15'44"									
3	S 14+825	18,999 <sup>12</sup>		269°44' 02"					5.5							
4			A2	193°43' 36"								297.15	0	14+825	295.7	
5	S 14+825			89°46' 31"			89°46'48"									Ang. Lat. 69°47'00"
6	S 28+300	18,999 <sup>12</sup>		270°12' 55"					5.5							
7																
8	T	0							5.5							
9	N	3465		90°25' 39"		C			14.3			262		16		
10	"	2145		90°39' 22"		C			27.4			251		15		
11	"	1980		90°37' 48"		C			14.3			267		15+165		
12	"	825		90°15' 58"		C			13.0			286		14		
13	T	0							5.5			297.15		14+825		
14	S	495		90°05' 02"		C			15.0			287		13		
15	"	1815		90°22' 59"		C			15.0			276		12		
16	"	3135		90°12' 29"		C			14.3			277		11		
17	"	4455		90°05' 55"		C			14.3			281		10		
18	"	5775		90°02' 39"		C			14.3			287		9		
19	"	7095		90°02' 13"		C			14.3			284		8		
20	"	8415		89°55' 56"		C			14.3			298		7		

TI-588B

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**STADIA SURVEY NOTES**

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 7  
 LINE No.(s) KD-91 PARTY No. 1182 DATE 4 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR K. R. 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		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												297.15		14+825	
2	S	9735		89°59'04"		C			14.3			291		6	
3	"	11055		89°58'58"		C			14.3			292		5	
4	"	12375		89°59'12"		C			14.3			291		4	
5	"	13695		" " "		C			14.3			292		3	
6	"	15015		89°58'52"		C			14.5			293		2	Pipe Marker
7	"	16170		89°56'48"		C			14.3			304			Tail Group #4
8	"	17490		89°54'53"		C			14.3			314			#8
9	"	18810		89°53'24"		C			14.3			324			#12
10	"	20130		89°55'13"		C			27.8			303			#16
11	"	21450		89°55'16"		C			27.4			305			#20
12	"	22770		89°55'15"		C			27.9			306			#24
13															
14	Sp 14+825			89°46'25"			89°46'43"								
15	Sp 28+300	18,999 <sup>12</sup>		270°13'00"				5.5							
16												377.10	⊙	28+300	375.3
17	Sp 28+300			90°15'27"			90°15'39"								
18	Sp 14+825	18,999 <sup>12</sup>		269°44'09"				5.5							Avg. Lat. 69°49'00"
19															
20															

TI-588B

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STADIA SURVEY NOTES

AREA Ikpiakpak - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. B  
 LINE No.(s) KD-91 PARTY No. 1182 DATE 4 Day 5 Mo. 77 Yr. BOOK No.   
 SURVEYOR A.R. 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		AB S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													377.10			28+300
2	S	2774.4	D	89°28'56"		C			S.S			357.6		Δ		
3	"	"	R	270°50'30"		C			S.S							
4																
5	T	O							S.S				352.1	⊙		30+165 350.3
6	S	2934.09	D	88°44'14"		C			S.S			292.9		Δ		
7	"	"	R	271°15'26"		C			S.S							
8	E	2755	D	89°01'26"		C			S.S				334.5	⊙		
9	"	"	R	270°58'04"		C			S.S					"		Sp 310-L-93
10																
11	Sp 310-16			89°45'44"			89°45'55"									
12	Sp 314+495	5775		270°13'55"					S.S							Avg. Lat. 69°50'00"
13			Ar.	104°41'47"									357.16	⊙		Sp 314+495-L-93
14	Sp 314+495			90°12'53"			90°13'08"									Refer to page #49
15	Sp 310	5775		267°46'37"					S.S							ELEV. 359.94
16																357.16
17																Tie -2.78
18																
19																355.2
20																

TI-558B

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STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 9

LINE No.(s) 91 PARTY No. 1182 DATE 05 Day 05 Mo. 77 Yr. BOOK No.     

SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: CLEAR, SUNNY, BRIGHT, Approx P.T.S. No.       
+15° light breeze 8:30 A.M.

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	<u>SOUTH</u>	<u>0</u>	-												<u>53</u>	<u>178.3</u>	
2	<u>SP 53 to</u>			<u>89-35-40</u>		<u>89°35'45"</u>											
3	<u>SP 45+825</u>			<u>270-24-10</u>													
4			<u>Az</u>	<u>186°16'02"</u>								<u>261.22</u>	<u>0</u>		<u>45+825</u>	<u>(NOT ACTUAL STATION)</u>	
5	<u>SP 45+825 to</u>			<u>90-25-11</u>		<u>90°25'25"</u>											
6	<u>SP 53</u>	<u>1138147</u>		<u>269-34-22</u>													
7																	
8												<u>179.0</u>			<u>53</u>	<u>Refer to page #1</u>	
9	<u>N</u>	<u>0</u>	-														
10	<u>SP 53 to</u>			<u>88-39-46</u>		<u>88°39'55"</u>											
11	<u>SP 54+165</u>			<u>271-19-57</u>													
12			<u>Az</u>	<u>03°15'30"</u>								<u>213.78</u>	<u>0</u>		<u>54+165</u>	<u>213.1</u>	
13	<u>SP 54+165 to</u>			<u>91-20-49</u>		<u>91°20'59"</u>											<u>Avg Lat. 69°58'20"</u>
14	<u>SP 53</u>	<u>148654</u>		<u>268-38-52</u>													
15	<u>N</u>	<u>0</u>															
16	<u>SOUTH</u>	<u>165</u>	-				<u>C</u>					<u>207</u>			<u>54</u>		
17	<u>NORTH</u>	<u>1155</u>	-				<u>C</u>					<u>207</u>			<u>55</u>		
18	"	<u>2475</u>		<u>90-10-17</u>			<u>C</u>					<u>182</u>			<u>56</u>		<u>Top most</u>
19	"	<u>3795</u>		<u>SEE PAGE #11</u>			<u>C</u>					<u>168</u>			<u>57</u>		"
20	"	<u>5115</u>		<u>90-11-14</u>			<u>C</u>					<u>175</u>			<u>59</u>		"

TI-588B

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**STADIA SURVEY NOTES**

NPR #4

AREA IKPIK PUR - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 10  
 LINE No.(s) 91 PARTY No. 1182 DATE 05 Day 05 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALLEN WEATHER: SAME 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												213.78		54+165	
2	NORTH	6435		90-09-06		C						179		59	
3	"	7753		SEE										60	
4	"	9075		FACE "11		C								61	
5	"	10395				C								62	
6	"	11715		90-13-51		C						144		63	
7	"	11880		90-13-48		C						144		63+165	
8	"	12210		90-07-39		C						178		63+495	
9	"	13035		90-07-32		C						176		64	
10	"	14355		90-05-15		C						183		65	
11	"	15675		90-03-53		C						187		66	
12	"	16995		90-05-00		C						180		67	
13															
14	SP54+165 to			90-05-27			90°05'31"								
15	SP67+660/17619.53			269-54-25				5.5							
16			Az.	03°10'34"								192.60	⊙	67+660 191.9	
17	SP67+660 to			89-57-09			89°57'16"								Avg. Lat. 69°59'00"
18	SP54+165/17619.53			270-02-38				5.5							
19															
20															

TI-5886

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STADIA SURVEY NOTES

NPR # 4  
 AREA IKPIKPOK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 11  
 LINE No.(s) 91 PARTY No. 1182 DATE 05 Day 05 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: SAME 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												192.60			67+660	
2	$\pi$	0	-											$\Delta$		
3	SOUTH	13860		90-00-18		C						168			57	
4																
5																
6												178				63+495 Page #10
7	$\pi$	0	-											$\Delta$		
8	SOUTH	4455		90-14-37		C						150			60	
9	"	3135		90-25-16		C						146			61	
10	"	1815		90-43-41		C						146			62	
11																
12																
13												192.60				67+660
14	$\pi$	0	-											$\Delta$		
15	NORTH	660		89-50-40		C						186			68	
16	"	1980														
17	"	3300		90-47-45		C						138			70	
18	"	4620		90-38-04		C						133			71	
19	"	5940		90-29-52		C						132			72	
20	"	7260		90-24-41		C						132			73	

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

**STADIA SURVEY NOTES**

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 12  
 LINE No.(s) 91 PARTY No. 1182 DATE 05 Day 05 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: SAME 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	NORTH											192.60		67+660	
2	"	9580		90-15-54	C							144		74	
3															
4															
5	SP67+660 TO			90-11-05											
6	SP74+660	9237.14		269-48-32					5.5						
7			Az.	03°50'44"								163.76	⊙	74+660 163.1	
8	SP74+660 TO			89-49-29											Avg. Lat. 70°01'00"
9	SP67+660	9237.14		270-09-52					5.5						
10															
11	SOUTH	6660		88-38-54	C				5.5			153.8		Δ D	BEST OF THREE
12	"	660		271-20-15	C				5.5					R	
13	∩	0	-						5.5			148.3		75	
14	NORTH	1320		90-20-44	C				14.3			132		76	
15	"	2640		90-17-56	C				14.3			126		77	
16	"	3960		90-11-59	C				14.3			126		78	
17	"	5280		89-51-51	C				14.3			152		79	
18	"	5115		90-08-30	C				14.3			127		78+1155	
19	"	6600		SEE PAGE	C				14.3					80	
20	∩	0							5.5			148.3	⊙	75	

TI-588B

WORKED BY \_\_\_\_\_ CHECKED BY 1st \_\_\_\_\_ 2nd \_\_\_\_\_

STADIA SURVEY NOTES

AREA NPR #4 IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 13  
 LINE No.(s) 91 PARTY No. 1182 DATE 05 Day 05 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR FRANK W. WITTIERODMAN T. VAN ALEN WEATHER: SAME P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadio 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												148.3		75	
2	SP 75	6103"		89-48-58											
3	SP 79+825			270-11-06											
4			Az.	07° 31' 28"								159.68		79+825	
5	SP 79+825 TO			90-11-27				90° 11' 45"							Avg. Lat. 70° 02' 00"
6	SP 75	6103"		269-47-58											
7															
8	▲	0	-												▲
9															
10	NORTH	495		91-30-59				C				138		80	
11	"	960		90-58-31				C				135			INTERSECTION 90/91
12	"	1815		90-31-23				C				134		81	Tip Marker
13	"	3135		90-23-03				C				130		82	
14	"	4455		90-16-24				C				130		83	
15	"	5775		90-12-35				C				130		84	
16	"	7095		90-10-40				C				129		85	
17	"	8415		89-55-52				C				141		86	
18	"	9735		89-54-08				C				147		87	
19	"	11055		89-53-30				C				172		88	
20	"	11220		89-53-30				C				172		88+165	

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WORKED BY

*Frank W. Wittierodman*

CHECKED BY 1st

2nd

**STADIA SURVEY NOTES**

NPR #4  
 AREA IKPIKPOK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 14  
 LINE No.(s) 91 PARTY No. 1182 DATE 05 Day 05 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR FRANK W. WITTIERODMAN T. VAN ALLEN WEATHER: SAME 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												172			88+165	
2	$\nearrow$	0	-						5.5					$\Delta$		
3	NORTH	1320		90-43-56	C			143				146			89	
4	"	2640		90-42-20	C			143				131			90	
5	"	3960		90-45-15	C			143				111			91	PIPE MARKER
6	"	5115		90-37-05	C			143				108				PIN FLAG #4
7	"	6435		90-11-30	C			143				142			"	#8
8	"	7755													"	#12
9	"	9075													"	#16
10	"	10395		90-15-03	C			228				109			"	#20
11	"	11715		90-13-21	C			228				109			"	#24
12																
13																
14																SP79+825
15	$\nearrow$	0	-						5.5					$\Delta$		
16	SP79+825 TO			89-48-53				89°48'56"								
17	SP69+825	4843.43		270-11-01					5.5							REFRACTION VERY BAD
18	LINE 90		A2	84°29'02"												Shot probably BAD due to time between shots.
19	SP69+825 L-90 TO			90-11-29				90°11'37"								SP69+825 L-90
20	SP79+825	4843.43		269-48-16					5.5							Avg. Lat 69°54'01"

TI-588B

WORKED BY Kenneth R. Olsen

CHECKED BY 1st \_\_\_\_\_ 2nd \_\_\_\_\_

STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 15

LINE No.(s) 91 PARTY No. 1182 DATE 05 Day 05 Mo. 77 Yr. BOOK No.

SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: High scattered clouds, windy, sunny @ 8:30 AM approx +10° 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	$\pi$	0	-														Refer to page #12 of this line #91 for elev.
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

2nd  
1st

TI-5688B

WORKED BY Reneth R. Allen

CHECKED BY 1st

2nd