

STADIA SURVEY NOTES

AREA IKPIKPUK - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 1
 LINE No.(s) 93 PARTY No. 1182 DATE 9 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.R. Richards 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		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2															
3															
4															
5		330										168.18		141	COMMON TO SP 38+495
6	T	0							5.5					141	COMMON TO SP 38+495 2-98
7	W	1320				C			11.4			162		140	LINE INT.
8	"	2640		90° 05' 57"		C			14.3			155		139	SP-141+100-93
9	"	3960		90° 09' 10"		C			14.3			150		138	SP-98+495-98
10	"	5280		90° 09' 52"		C			14.3			146		137	PIPE
11	"	6600		90° 07' 57"		C			14.3			146		136	
12	"	7920		90° 04' 21"		C			14.3			153		135	
13															
14	SP 141 To			90° 03' 39"		90° 03' 43"									
15	SP 135+825	8740.04		269° 56' 13"											
16	Azimuth			278° 05' 41"								160.40	0	135+825	
17	SP 135+825			89° 57' 32"		89° 57' 36"									
18	To - Sp 141	8740.04		270° 02' 21"											
19															
20															

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STADIA SURVEY NOTES

AREA TKPTKPIK - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 2
 LINE No.(s) KD-93 PARTY No. 1182 DATE 9 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.R. Richards 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		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1													160.40	1357.825	
2															
3															
4	<u>T</u>	<u>0</u>										<u>165.9</u>		<u>Δ</u>	
5	<u>N</u>	<u>1030</u>	<u>-</u>			<u>C</u>							<u>164.0</u>	<u>+</u>	<u>TRI STA. JUNE ELEV. 164.0</u>
6	<u>T</u>	<u>0</u>											<u>160.40</u>	<u>○</u>	<u>1357.825 USE-1950</u>
7	<u>F</u>	<u>1815</u>		<u>89° 29' 34"</u>		<u>C</u>						<u>153.3</u>		<u>Δ</u>	<u>D</u>
8	<u>"</u>			<u>270° 30' 27"</u>		<u>C</u>									<u>R</u>
9	<u>"</u>	<u>1320</u>		<u>89° 31' 09"</u>		<u>C</u>							<u>144.6</u>		<u>134</u>
10	<u>"</u>	<u>495</u>		<u>89° 29' 31"</u>		<u>C</u>							<u>144.7</u>		<u>134 + 825</u>
11	<u>T</u>	<u>0</u>											<u>147.3</u>	<u>○</u>	<u>133 ✓</u>
12															
13	<u>T</u>	<u>0</u>											<u>153.2</u>		<u>Δ</u>
14	<u>W</u>	<u>1320</u>	<u>-</u>			<u>C</u>							<u>145</u>		<u>132</u>
15	<u>"</u>	<u>2640</u>		<u>89° 51' 59"</u>		<u>C</u>							<u>145</u>		<u>131</u>
16	<u>"</u>	<u>3960</u>		<u>89° 55' 22"</u>		<u>C</u>							<u>145</u>		<u>130</u>
17	<u>"</u>	<u>5280</u>		<u>89° 56' 44"</u>		<u>C</u>							<u>145</u>		<u>129</u>
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPTKPUK - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 3
 LINE No.(s) KD-93 PARTY No. 1102 DATE 9 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.R. Richards 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		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1												147.50	133		
2															
3															
4	Sp 133 To			89° 54' 12"		89° 54' 10"		5.5							
5	Sp 129+825	6101.54		270° 05' 52"											
6		Azimuth		289° 30' 06"							158.84	0	129+825		
7	Sp 129+825			90° 07' 20"		90° 07' 10"		5.5					159.0		
8	To Sp 133	6101.54		269° 53' 00"											
9															
10	A	0						5.8					Δ		
11	W	495		91° 06' 11"		C		14.3			141		128		
12	"	1815		90° 20' 07"		C		14.3			140		127		
13	"	3135		90° 13' 01"		C		14.3			139		126		
14	"	4455		90° 09' 22"		C		14.3			139		125		
15	"	5775		90° 07' 44"		C		14.3			139		124		
16	"	7095		90° 00' 02"		C		14.3			153		123		
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIKPUK - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 4
 LINE No.(s) KD-93 PARTY No. 1182 DATE 9 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.R. Richards RODMAN T. VAN ALLEN WEATHER: _____ P.T.S. No. _____

LINE	Sighting of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1													158.04	129+825		
2																
3																
4																
5	Sp 129+825			90° 04' 20"	}		90° 01' 12"		5.5							
6	To Sp 123+165	7255.88		269° 55' 55"												
7		Azimuth		289° 27' 41"									151.65	123+165		
8	Sp 123+165			89° 57' 25"	}		89° 57' 23"		5.5					151.9		
9	To Sp 129+825	7255.88		270° 02' 39"												
10																
11	Δ	0							5.8					Δ		
12	W	1155		90° 18' 54"		C			14.3			137	122			
13	"	2475		89° 52' 33"		C			14.3			149	121			
14	"	3795		89° 57' 38"		C			14.3			147	120			
15	"	5015		90° 05' 09"		C			14.3			137	119			
16																
17	Sp 123+165			90° 07' 39"	}		90° 07' 40"		5.5							
18	To Sp 118	6431.35		269° 52' 20"												
19		Azimuth		289° 26' 29"									139.54	118	139.9	
20																

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AREA IKPIKPUK - Key Creek STATE or PROVINCE NORTH SLOPE, ALASKA PAGE No. 5
 LINE No.(s) KD - 93 PARTY No. -1182 DATE 9 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR R.Richards 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		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2	Sp 118 To			89° 54' 47"	}		89° 54' 43"	5.5				139.54		118	
3	Sp 123 + 165	6431.35		270° 05' 21"											
4															
5	Δ	O						5.8					Δ		
6	W	1320	-			C		6.4				139		117	
7	"	2640		89° 57' 34"		C		14.3				133		116	
8	"	3960		89° 46' 51"		C		14.3				131		115	
9															
10	Sp 118 - To -			90° 01' 28"	}		90° 01' 28"	5.5							
11	Sp 114	5277.69		269° 58' 32"											
12		Azimuth		301° 15' 50"								138.40	\odot	114	1388
13	Sp 114 To -			89° 59' 52"	}		89° 59' 59"	5.5							
14	Sp 118	5277.69		269° 59' 54"											
15															
16	Δ	O						5.8					Δ		
17	W	1320		90° 17' 08"		C		14.3				123		113	
18	"	2640		90° 03' 12"		C		14.3				128		112	
19	"	3960		90° 09' 39"		C		14.3				120		111	
20															

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STADIA SURVEY NOTES

AREA IKPIKPIK - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 6
 LINE No.(s) KD-93 PARTY No. 1182 DATE 9 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.R. Richards 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		A.B.S. OF S. S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1													138.40		114	
2	W	5280		90° 02' 44"		C							127		110	
3	"	6600		90° 03' 17"		C							126		109	
4	"	7920		90° 01' 56"		C							129		108	
5	"	9240		90° 00' 42"		C							133		107	
6																
7	Sp 114 To			269° 56' 05"				90° 03' 49"								
8	Sp 106	10,555.9		90° 03' 43"												
9	Azimuth			301° 15' 29"									129.65	⊙	106	130.2
10	Sp 106 To			89° 58' 14"				89° 58' 07"								
11	Sp 114	10,555.4		270° 02' 00"												
12																
13	T	0														△
14	W	1320		89° 54' 57"		C							123		105	
15	"	2640		89° 58' 30"		C							123		104	
16	"	3960		90° 02' 11"		C							119		103	
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA IKPIKPIK - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 7
 LINE No.(s) KD-93 PARTY No. 1182 DATE 9 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.P. Richards RODMAN T. VARD ALLEN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													129.63		106	
2	Sp 106 To			89° 59' 55"				89° 59' 44"	5.5							
3	Sp 102	5277.69		270° 00' 27"												
4		Azimuth		301° 15' 29"									130.70	⊙	102	131.3
5	Sp 102 To			90° 01' 14"				90° 01' 06"	5.5							
6	Sp 106	5277.69		269° 59' 02"												
7																
8	T	O							5.8					△		
9	W	1320		89° 59' 11"		C			14.3				123		101	
10																
11	Sp 102 To			90° 12' 31"				90° 12' 30"	5.5							
12	Sp 100	2638.89		269° 49' 32"												
13		Azimuth		301° 17' 12"									121.77	⊙	100	122.4
14	Sp 100 To			89° 49' 09"				89° 49' 14"	5.5							
15	Sp 102	2638.89		270° 10' 41"												
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA IKPTKPIUK - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. B
 LINE No.(s) KD-93 PARTY No. 1182 DATE 9 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.P. Richards 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		A.B.S. OF S. S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
1															
2	\wedge	0													
3	W	1320		89° 53' 19"	C							121.77		100	
4	"	2640		89° 56' 32"	C							125		99	
5	"	3960		89° 48' 34"	C							125		98	
6	"	5280		89° 48' 34"	C							127		97	
7	"	6600		89° 52' 14"	C							127		96	
8	"	7920		89° 52' 56"	C							129		95	
9	"	9240		89° 54' 46"	C							129		94	
10	\wedge	0		89° 55' 07"	C							131		93	
11												121.77	0	100	122.4
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. 9
 LINE No.(s) KD-93 PARTY No. 1182 DATE 10 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K. R. Allen RODMAN Tim VanAllen WEATHER: Snow P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												121.77		100	
2	E	165	-				C		11.5			133.1	Δ		
3	K	0							5.5			127.6	○	100+165	Pipe marker
4															128.3
5	Sp 100+165-to-			89°58' 00" 2		89°58'07"									
6	Sp 92	10,390.45		270°01' 46" S					5.5						
7	Azimuth			292°06' 58"								136.09	○	92	136.9
8	Sp 92-to-			90°03' 37" 2		90°03'44"									
9	Sp 100+165	10,390.45		269°56' 10" S					5.5						
10															
11	K	0							5.7				Δ		
12	W	1320		90°06' 51"			C		14.3			125		91	
13	"	2640		90°00' 57"			C		14.3			127		90	
14	"	3960		89°55' 23"			C		14.3			134		89	
15	"	5280		90°02' 38"			C		14.5			125		88	
16	"	6600		90°01' 34"			C		14.3			127		87	
17	"	7920		89°58' 21"			C		14.3			135		86	
18	"	9240		90°02' 36"			C		14.3			125		85	
19	"	10560		90°02' 36"			C		14.3			126		84	
20	"	11880		90°00' 35"			C		20.7			127		83	

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STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 10
 LINE No.(s) KD-93 PARTY No. 1182 DATE 10 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR H. R. ALLEN RODMAN T. VAN ALLEN WEATHER: SNOW 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	W	13200		90°02' 11"		C			14.3			128			82	
3																
4	Sp 92 to -			90°01' 23" }		90°01'21"										
5	Sp 81	14,513. ⁴⁴		269°58' 40" }					5.5							
6		Azimuth		298°27' 32"								136. ⁵¹	○	81	137-5	
7	Sp 81 to -			90°01' 33" }		90° 01'33"										
8	Sp 92	14,513. ⁶⁴		269°58' 27" }					5.5							
9																
10	N	0							6.2				Δ			
11	W	1320	-			C			6.0			137	,	80		
12																
13	Sp 81 to			90°08' 29" }		90°08'18"										
14	Sp 79	2638. ³³		269°51' 53" }					5.5							
15		Azimuth		298°26' 41"								131. ⁵²	○	79	132-6	
16	Sp 79 to -			89°55' 22" }		89° 55'17"										
17	Sp 81	2638. ³³		270°04' 47" }					5.5							
18																
19																
20																

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STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 11
 LINE No.(s) KD-95 PARTY No. 1182 DATE 10 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR R. B. ALLEN RODMAN T. VAN ALLEN WEATHER: SNOW 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												131.52			79	
2	X	0							5.6					Δ		
3	W	1320		90°03' 59"		C			14.3			121			78	
4	"	2440		90°02' 30"		C			14.3			121			77	
5	"	3960		90°01' 20"		C			14.3			122			76	
6	"	5280		90°00' 03"		C			14.3			124			75	
7	"	6600		89°56' 02"		C			14.3			133			74	
8	"	7920		89°58' 38"		C			14.3			129			73	
9	"	9240		89°58' 40"		C			14.3			131			72	
10	"	10560		89°57' 14"		C			14.3			137			71	
11																
12	Sp 79-to-			90°00' 15" }			90°00'10"									
13	Sp 70	11872 ⁴⁹		269°59' 55" }				5.5								
14		Azimuth		274°11' 03"								135.38	0	70	136.6	
15	Sp 70-to-			90°02' 29" }			90°02'24"									
16	Sp 79	11872 ⁴⁹		269°57' 40" }				5.5								
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope Alaska PAGE No. 12
 LINE No.(s) KD-93 PARTY No. 1182 DATE 10 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.E. ALLEN RODMAN T. VAN ALLEN WEATHER: SNOW P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			▲B.S. OF S. -S.S.
1		0											135.38	Δ	70	
2	Sp 70-to-			89°59'	41" } 41" }		89°59'45"									
3	Sp 64	7915.0		270°00'	11" }											
4		Azimuth		274°11'	03" }								138.22	○	64	139.5
5	Sp 64-to-			90°02'	19" } 19" }		90°02'13"									
6	Sp 70	7915.0		269°57'	53" }											
7																
8	N	0												Δ		
9	E	6600		89°57'	42"	C							136		69	
10	"	5280		89°58'	40"	C							133		68	
11	"	3960		90°02'	12"	C							128		67	
12	"	2640		90°01'	54"	C							128		66	
13		1320		89°54'	09"	C							132		65	
14	N	0											138.22		64	
15	W	1320		89°49'	10"	C							134		63	
16	"	2640		89°55'	52"	C							133		62	
17	"	3960		89°59'	24"	C							131		61	
18																
19																
20																

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STADIA SURVEY NOTES

AREA Ik pik puk - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 13
 LINE No.(s) KD-93 PARTY No. 1182 DATE 10 Day, 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K. R. ALLEN RODMAN T. VAN ALLEN WEATHER: SNOW P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2	Sp 64-to-			90°06' 20" }			90°06'22"								
3	Sp 60	5276.66		269°53' 36" }				5.5							
4	Azimuth			274°11' 22"								129.69	⊙	60	131.1
5	Sp 60-to-			89°55' 11" }			89°55'15"								
6	Sp 64	5276.66		270°04' 41" }				5.5							
7															
8	N	0						5.6					Δ		
9	W	1320		90°06' 59" C				14.3				118		59	
10	"	2640		90°06' 19" C				14.3				117		58	
11	"	3960		90°05' 28" C				14.3				116		57	
12	"	5280		89°57' 53" C				14.3				126		56	
13	"	6600		270°01' 38" C				14.3				133		55	Reversed Angle
14	"	7920		89°58' 52" C				14.3				127		54	
15	"	9240		89°59' 12" C				14.3				128		53	
16	Sp 60-to-			90°02' 26" }			90°02'27"								
17	Sp 52	10,553.33		269°57' 33" }				5.5							
18	Azimuth			274°11' 48" }								123.91	⊙	52	125.5
19	Sp 52-to-			89°58' 48" }			89°58'41"								
20	Sp 60	10,553.33		270°01' 26" }											

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STADIA SURVEY NOTES

AREA Ikpi'kupuk - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 14
 LINE No.(s) KD-93 PARTY No. 1182 DATE 10 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K. B. ALLEN RODMAN T. VANALEN WEATHER: 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. ⊙ F.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		0								5.5				Δ	52	
2	W	1320		89°51'30"		C				14.3			118		51	
3	Sp 52-6-			89°43'30"			89°43'30"									
4	Sp 51+1155	2473.6°		270°16'31"						5.5						
5		Azimuth		274°41'35"									136.32	⊙	51+1155	137.9
6	Sp 51+1155			90°18'04"			90°18'00"									
7	6-Sp 52	2473.6°		269°42'04"						5.5						
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

NPR #4
 AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 15
 LINE No.(s) 93 PARTY No. 1182 DATE 11 Day 04 Mo. 77 Yr. BOOK No.
 SURVEYOR FRANK W. WITTIE RODMAN TIM VANALEN WEATHER: HIGH OVERCAST, LIGHT SNOW P.T.S. No.
-20°F (EARLY MORNING)

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												136.32		51+1155	
2	π	0	-					5.5						Δ 51+1155	
3	WEST	165	-				C	8.8				133.00		50	
4	"	1485		90-10-32			C	14.3				123		49	
5	"	2805		90-07-40			C	14.3				121		48	
6	"	4125		90-08-20			C	14.3				118		47	
7	"	5445		90-06-58			C	14.3				116		46	
8	"	6765		90-05-18			C	14.3				117		45	
9	"	8085		90-04-34			C	14.3				117		44	
10	"	9405		90-04-05			C	14.3				116		43	
11															
12	SP 51+1155 TO			90-01-40				90-01-36							
13	SP 42	10718.91		269-58-28				5.5							
14			AZ	274-42-05								134.22	⊙	42	136.0
15	SP 42 TO			90-00-24				90-00-15							
16	SP 51+1155			269-59-53				5.5							
17															
18	π	0	-					5.5						Δ 42	
19	WEST	1320		90-07-14				14.3				123		41	
20	"	2640		90-07-00				14.3				120		40	

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STADIA SURVEY NOTES

NPR #4

AREA IK PIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 16
 LINE No.(s) 93 PARTY No. 1182 DATE 11 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN J. VAN ALEN WEATHER: HIGH OVERCAST, LIGHT SNOW P.T.S. No. _____
-20° F (EARLY MORNING)

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												134.22		42	
2	TA	0	-					5.5					Δ	42	
3	WEST	3960		90-03-48		C		14.3				121		39	
4															
5	SP 42 TO			90-02-15				90-02-08							
6	SP 39+825	4782.38		269-57-58				5.5							
7			AZ	274-42-50								131.98	○	39+825	133.8
8	SP 39+825 TO			89-58-55				89-58-55							
9	SP 42			270-01-04				8.5							
10															
11	TA	0	-					5.9					Δ	39+825	
12	SP 39+825 TO			89-54-35				89-54-32							
13	TRI STA KIM	5024.36		270-05-30				5.5							
14			AZ	333-51-51								138.13	○		140.0
15	TA	0	-					4.9					Δ	TRI-STA. KIM USE 1958	
16															ELEV. 140.0
17	TRI-STA KIM TO			90-02-49				90-02-57							138.13
18	SP 39+825			269-56-55				5.5					TIE		-1.87
19															
20															

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STADIA SURVEY NOTES

NPR #4

 AREA IKPIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 17
 LINE No.(s) 93 PARTY No. 1182 DATE 11 Day 04 Mo. 77 Yr. BOOK No.
 SURVEYOR FRANK W. WITTIE RODMAN T. VANALEN WEATHER: High overcast, Light snow P.T.S. No.
-20°F (EARLY MORNING)

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			▲B.S. OF.S. -S.S.	
1																	
2																	
3	▲	0	-														
4																	
5																	
6																	
7																	
8	▲	0	-														
9																	
10																	
11																	
12	▲	0	-														
13	WEST	495															
14	"	1815															
15	"	3135															
16	"	4455															
17	"	5775															
18	"	7095															
19	"	8415															
20	"	9735															

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 18
 LINE No.(s) 93 PARTY No. 1182 DATE 11 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VANALEN WEATHER: high scattered clouds, sunny 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												133.85		39+825	
2	π	0	-					5.5						Δ 39+825	
3															
4	SP 39+825 TO			90-02-09				90-02-02							
5	SP 31+825	10354.01		269-58-04					5.5						
6			A2	270-59-56								130.29	\odot	31+825	
7	SP 31+825 TO			89-59-36				89-59-43							
8	SP 39+825			270-00-09					5.5						
9															
10	π	0	-					5.5				130.29	Δ	31+825	
11	WEST	495		89-17-04		C			14.3			128		30	
12	"	1815		90-03-49		C			14.3			119		29	
13	"	3135		90-02-28		C			14.3			119		28	
14	"	4455		90-00-19		C			14.3			121		27	
15	"	5775		90-03-02		C			14.3			116		26	
16	"	7095		90-01-28		C			14.3			118		25	
17	"	8415		90-00-02		C			14.3			121		24	
18															
19															
20															

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STADIA SURVEY NOTES

NPR #4
 AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 19
 LINE No.(s) 93 PARTY No. 1182 DATE 11 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTE RODMAN T. VANALEN WEATHER: high scattered clouds, sunny 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													130.29		31+825	
2	π	0	-						5.5					Δ	31+825	
3																
4	SP 31+825 TO			90-01-19			90-01-12									
5	SP 23	9729.47		269-58-55					5.5							
6			AZ	270-59-14									129.37	\odot	23	
7	SP 23 TO			90-00-36			90-00-33									
8	SP 31+825			269-59-29					5.5							
9																
10	π	0	-						5.5					Δ	23	
11	WEST	1320		90-11-34		C			14.3				116		22	
12	"	2640		90-05-55		C			14.3				116		21	
13	"	3960		90-03-24		C			14.3				117		20	
14	"	5280		90-02-41		C			14.3				116		19	
15	"	6600		90-02-25		C			14.3				116		18	
16	"	7920		90-00-02		C			14.3				120		17	
17	"	9240		90-01-37		C			14.3				116		16	
18	"	10560		90-02-08		C			14.3				114		15	
19	"	11880		90-01-42		C			14.3				115		14	
20																

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STADIA SURVEY NOTES

NPR # 4
 AREA 1KPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 20
 LINE No. (s) 93 PARTY No. 1182 DATE 11 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIERODMAN T. VANALEN WEATHER: high scattered clouds, sunny P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												129.37			23	
2	π	0	-					5.5						Δ	23	
3																
4	SP 23 TO			90-01-29			90-01-23									
5	SP 13	13,192.51		269-58-42				5.5								
6			AZ	270-58-56								127.99	\odot		13	
7	SP 13 TO			90-00-40			90-00-40									
8	SP 23			269-59-20				5.5								
9																
10	π	0	-					5.5						Δ	13	
11	WEST	1320		90-06-16		C		14.3				117			12	
12	"	2640		90-03-32		C		14.3				116			11	
13	"	3960		90-02-16		C		14.3				117			10	
14	"	5280		90-01-24		C		14.3				117			9	
15	"	6600		89-59-06		C		14.3				121			8	
16	"	7920		90-03-48		C		14.3				110			7	
17	"	9240		90-03-10		C		14.3				111			6	
18	"	10560		90-02-28		C		14.3				112			5	
19	"	11880		90-02-23		C		14.3				111			4	
20	"	13200		90-00-12		C		14.3				118			3	

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STADIA SURVEY NOTES

NPR #4

AREA 1K PIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 21
 LINE No.(s) 93 PARTY No. _____ DATE 11 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTE RODMAN T. VANALEN WEATHER: high scattered clouds, sunny 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												127.99		13		
2	<i>N</i>	0	-					5.5						<i>Δ</i>	13	
3	WEST	14520		89-59-15		C		14.3				122		2		
4																
5	SP 13 TO			90-01-17				90-01-14								
6	SP 1	15,831.01		269-58-49				5.5								
7				AZ 271-01-10								128.60	0	1	PIPE	
8	SP 1 TO			90-01-31				90-01-30								
9	SP 13			269-58-31				5.5								
10																
11	<i>N</i>	0	-					5.5						<i>Δ</i>	1	
12	WEST	1155	-					13.6				121			PIN FLAG #4	
13	"	2475		89-52-16		C		14.3				125		"	#8	
14	"	3795		90-04-21		C		14.3				115		"	#12	
15	"	5115		90-02-23		C		14.3				116		"	#16	
16	"	6435		90-01-41		C		14.3				117		"	#20	
17	"	7755		90-01-18		C		14.3				117		"	#24	
18																
19																
20																

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STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 22
 LINE No. (s) 93 PARTY No. 1182 DATE 11 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: OVERCAST, INTERMITTENT P.T.S. No. _____
SUN LIGHT

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												128.60		1	
2	π	0	-					6.1						Δ 1	
3															
4	SP 1 TO			90-01-12			90-01-12								
5	SP 13	15,831.0		269-58-49				5.5							
6			AZ	91-01-10								127.14	\odot	13	
7															
8	π	0	-					5.8						Δ 13	
9															
10	SP 13 TO			90-00-41			90-00-34								
11	SP 1			269-59-32				5.5							
12															
13	π	0	-					5.8						Δ 13	
14															
15	SP 13 TO			89-57-37			89-57-57								
16	SP 23	13,192.51		270-01-42				5.5							
17			AZ	90-58-56								129.28	\odot	23	
18	π	0	-					5.9						Δ 23	
19	SP 23 TO			89-58-56			89-59-04								
20	SP 13			270-00-49				5.5							

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STADIA SURVEY NOTES

NPR #4

AREA IKPIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 23
 LINE No. (s) 93 PARTY No. 1182 DATE 11 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VANALEN WEATHER: high scattered clouds, sunny P.T.S. No. _____
light breeze, -25°

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													129.28		23	
2	π	0	-						5.9						Δ 23	
3																
4	SP 23 TO			89-58-40			89-58-53									
5	SP 31+825	972947		270-00-54				5.5								
6			AZ	90-59-14									129.82	0	31+825	
7																
8	π	0	-						6.2						Δ 31+825	
9																
10	SP 31+825 TO			89-59-10			89-59-16									
11	SP 23			270-00-38				5.5								
12																
13	π	0	-						6.3						Δ 31+825	
14																
15	SP 31+825 TO			89-59-14			89-58-38									
16	SP 39+825			270-01-59				5.5								
17		10654.02	AZ	90-59-56									132.94	0		
18	π	0	-						5.9						Δ 39+825	
19	SP 39+825 TO			90-00-47			90-00-40									
20	SP 31+825			269-59-26				5.5								

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STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 24
 LINE No. (s) 93 PARTY No. 1102 DATE 11 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VANALEN WEATHER: high scattered clouds 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													132.94			
2	π	0	-						5.9					Δ	39+825	
3																
4	SP 39+825 TO			89-54-35			89-54-32									
5	TR I STA. KIM	5024.36		270-05-30					5.5							
6			AZ	333-51-51								139.09		\odot	TR I STA. Kim	
7																Elev. 140.0
8	π	0	-						4.9					Δ	TR I 11139199	
9																TIE - .91
10	TR I STA KIM TO			90-02-49			90-02-57									
11	SP 39+825			269-56-55					5.5							
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. #25
 LINE No.(s) 93 PARTY No. 1182 DATE 18 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR H.R. ALLEN RODMAN T. VAN ALLEN WEATHER: CLEAR P.T.S. No. _____

LINE	Bearing of Sight	Stadio 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	S 141-14-			90° 06' 44"				90° 06' 45"								
5	S 146+495	7091.89		269° 53' 14"												
6				AZIMUTH = 31° 37' 25"												
7	S 146+495 to			89° 54' 18"				89° 54' 26"								
8	S 141	7091.89		270° 05' 26"												
9																
10	X	0														
11	W	6270		89° 51' 25"												
12	"	5775		90° 01' 05"												
13	"	4435		90° 02' 05"												
14	"	3135		90° 03' 04"												
15	"	1815		90° 05' 02"												
16	W	495		89° 59' 18"												
17	X	0														
18	E	825	-													
19																
20																

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STADIA SURVEY NOTES

AREA Ikpikuk - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 26
 LINE No.(s) KD-93 PARTY No. 1182 DATE 18 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.R. ALLEN RODMAN T. VAN ALLEN WEATHER: HAZE 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	Sp 146+495-A-2143.85			89°49'07"			89°49'13"					155.48			
3	Sp 148			270°10'42"			88°33'32"	5.5				162.82	⊙	148	69°57'21"
4	Sp 148-to-			90°12'52"											162.9
5	Sp 146+495 2143.85			269°47'20"			90°12'46"	5.5							
6	X	0						5.5							Δ
7	E	1320		89°37'18"		C		14.3				163		149	
8		2640		90°06'52"		C		17.3				146		150	
9		3960		90°08'09"		C		14.3				145		151	
10		5280		89°55'05"		C		14.3				162		152	
11															
12	Sp 148-to-6596.47			90°01'28"			90°01'32"								
13	Sp 153			269°58'24"											
14				AB = 86-37-14								161.73	⊙	153	69°57'26"
15	Sp 153-to-			90°00'27"			90°00'24"								161.9
16	Sp 148 6596.47			269°59'39"											
17															
18	X	0						5.5				167.23			Δ
19	E	1320		90°28'02"		C		21.8				135		154	
20	"	2640		90°17'31"		C		20.9				133		155	

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STADIA SURVEY NOTES

AREA Ikpiakuk - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 27
 LINE No.(s) R2-93 PARTY No. 1182 DATE 18 Day 4 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		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												167.23				
2	E	1815				e		4.2							152 + 495 (-7m)	
3	"	3960		90°15' 33"		C		14.3				135		156		
4	"	5276.99		90°19' 35"		C		24.4						0	D	
5	E	"		269°40' 05"		C		24.4				113.5		0	157 R 113.3	
6	N	0						5.5				118.5		0		
7	E	1320	-			C		7.7				111			158	
8	"	2640	-			C		6.8				112			159	cat
9	"	3958.91		89°57' 45"		C		5.5						0	160 D 69°57'23"	
10	"			270°01' 42"		C		5.5				115.2		0	160 R NON-RECIP.	
11																115.9
12	N	0						5.5						0		
13	E	11,880		89°59' 40"		C		14.3				108			169	
14	"	10,560		90°04' 31"		C		14.3				93			168	
15	"	9,240		90°05' 07"		C		14.3				93			167	
16	"	7,920		90°07' 39"		C		14.3				89			166	
17	"	6,600		90°12' 25"		C		14.3				83			165	
18	"	5,280		90°06' 54"		C		14.3				96			164	
19	"	3,960		90°07' 22"		C		14.3				98			163	
20	"	2,640		90°10' 16"		C		14.3				99			162	

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STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 28
 LINE No.(s) KD-93 PARTY No. 1182 DATE 18 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.R. ALLEN RODMAN _____ 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	E	1320		90°29'05"	C			14.3				96		161		
3	E	470		90°32'38"	C			21.9				95		160+470 (HLL)		
4																
5	Sp 160-to-	13,193.76		90°01'56"	}	90°01'50"										
6	Sp 170			269°57'59"					5.5							
7				Az. 100°14'23"								103.12	⊙	170	69°57'02"	
8	Sp 170-to-			89°55'14"	}	89°55'24"										103.5
9	Sp 160	13,193.76		270°04'26"					5.5							
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. 29
 LINE No. (s) KD-93 PARTY No. 1182 DATE 19 Day 4 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	Correc-tion	Center Hair			INST.	ROD			
1												103 ¹⁰				
2																
3															170	
4	<u>N</u>	<u>0</u>												<u>Δ</u>		
5	<u>E</u>	<u>1320</u>		<u>89°46' 12"</u>		<u>C</u>						<u>14.3</u>	<u>100</u>		<u>171</u>	
6	"	<u>2640</u>	<u>-</u>			<u>C</u>						<u>6.7</u>	<u>102</u>		<u>172</u>	
7	"	<u>3960</u>	<u>-</u>			<u>C</u>						<u>5.6</u>	<u>103</u>		<u>173</u>	
8	"	<u>5280</u>	<u>-</u>			<u>C</u>						<u>6.3</u>	<u>102</u>		<u>174</u>	
9	"	<u>6600</u>	<u>-</u>			<u>C</u>						<u>4.3</u>	<u>104</u>		<u>175</u>	
10	"	<u>7920</u>		<u>89°57' 59"</u>		<u>C</u>						<u>14.3</u>	<u>99</u>		<u>176</u>	
11	"	<u>9240</u>		<u>89°58' 09"</u>		<u>C</u>						<u>14.3</u>	<u>99</u>		<u>177</u>	
12	"	<u>10360</u>		<u>89°57' 50"</u>		<u>C</u>						<u>14.3</u>	<u>101</u>		<u>178</u>	
13	"	<u>11880</u>		<u>89°58' 11"</u>		<u>C</u>						<u>14.3</u>	<u>101</u>		<u>179</u>	
14	"	<u>13,200</u>		<u>89°58' 58"</u>		<u>C</u>						<u>14.3</u>	<u>98</u>		<u>180</u>	
15	"	<u>14,520</u>		<u>89°56' 11"</u>		<u>C</u>						<u>14.3</u>	<u>110</u>		<u>181</u>	
16	<u>S 170 - to -</u>			<u>89°46' 11"</u>				<u>89°46' 05"</u>								
17	<u>S 181 + 165</u>	<u>14,672.0</u>		<u>270°13' 21"</u>								<u>5.5</u>				
18				<u>Az = 94°17' 06"</u>												
19	<u>S 181 + 165</u>			<u>90°15' 59"</u>				<u>90°15'</u>					<u>166.22</u>	<u>⊙</u>	<u>181 + 165</u>	<u>69°56'52"</u>
20	<u>to - S 170</u>	<u>14,672.0</u>		<u>269°44' 00"</u>				<u>90°15' 59"</u>				<u>5.5</u>				<u>166.7</u>

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STADIA SURVEY NOTES

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AREA Ikpikuk - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 29
 LINE No.(s) KD-93 PARTY No. 1182 DATE 19 Day 4 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		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1												166.22		181+165		
2	N	0						5.5					Δ			
3	E	1155	-			C		13.3				158		182		
4	"	2475		90°08'	26"	C		14.3				151		183		
5	"	3795		89°59'	43"	C		14.3				158		184		
6	"	5115		89°47'	15"	C		14.3				176		185		
7																
8	S 181+165	6926 E'		89°52'	41"	89°52'49"										
9	S 186+495			270°07'	02"			5.5								
10				AB. 94-16-35								182.31	○	186+495	67-56-34	
11	S 186+495			90°08'	37"	90°08'47"									182.9	
12	S 181+165	6926 E'		249°51'	03"			5.5								
13																
14	N	0						5.5					Δ			
15	W	495	-			C		8.2				180		186		
16	E	825	-			C		14.0				174		187		
17	"	1320		90°43'	17"	C		14.3				157		187+495	(Pin)	
18	"	2145		90°30'	10"	C		14.3				155		188		
19	"	3465		90°22'	07"	C		14.3				151		189		
20	"	4785		90°16'	49"	C		14.3				150		190		

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STADIA SURVEY NOTES

AREA Ikpikuk - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 30
 LINE No.(s) KD-93 PARTY No. 1182 DATE 19 Day 4 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		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													182.31			
2	E	6105		90°12' 24"		C							151	191		
3	"	7425		90°08' 21"		C							155	192		
4	"	8745		90°06' 20"		C							157	193		
5	"	10,065		90°00' 10"		C							173	194		
6	"	11,385		90°00' 26"		C							169	195		
7	"	12,705		90°03' 20"		C							156	196		
8	"	13,530		90°02' 38"		C							158	196 + 825 (Pin)		
9	"	14,025		89°56' 25"		C							188	197		
10	"	15,345		89°57' 04"		C							187	198		
11	"	16,665		89°59' 03"		C							169	199		
12	"	17,985		89°56' 09"		C							194	200		
13	"	19,305		89°54' 25"		C							205	201		
14																
15	S 186°49' 21439.24			89°53' 13"				89°53' 25"								
16	N 202°18' 25			270°06' 23"				5.5								
17				Azi = 94-17-41									233.03	202 + 825	69-56-34	
18	S 202°18' 25			90°09' 27"				90°09' 41"						233.8		
19	S 186°49' 21439.24			269°50' 05"				5.5								
20																

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STADIA SURVEY NOTES

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AREA Ikpik pub - Key Creek STATE or PROVINCE North Slope Alaska PAGE No. 31
 LINE No.(s) KD-93 PARTY No. 1182 DATE 19 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		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												233.9 ³		202+825		
2	N	0						5.5				238.53	Δ			
3	W	825		90°15'	57"	C		14.3				220		202		
4		Δ						5.5								
5	E	495	-			C		9.5				229		203		
6	"	1629.2	D	90°27'	44"	C		6.0					0	203+11.35 = Int. L-99+L-93		
7	E		R	269°31'	27"	C		6.0				219.2	0		NON-RECIP. 220.0	
8	N	0						5.5				224.7	Δ	"PIPE"		
9	S	118	-	90°		C		5.9						D		
10	S	118	-	270°		C		5.9					0	R Sp 157-L-KD-99		
11														Refer to page # 7		
12														of KD-L-99-Sp 152		
13														At Elev. 220.36 2196		
14														218.8°		
15														TIE -1.5		
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 33
 LINE No.(s) KD-93 PARTY No. 1182 DATE 19 Day 4 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		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3												219.20			203+1135	220.0
4	N	0							5.5					Δ		
5	E	185	-				C		8.5			216			204	
6	"	150.5	-	90°11' 16"			C		14.3			205			205	
7	"	282.5	-				C		7.2			218			206	
8	"	414.5	-				C		11.4			213			207	
9	"	546.5	-	90°03' 17"			C		14.3			205			208	
10	"	678.5	-	89°58' 44"			C		3.5			222			209	
11																
12	S 203+1135			89°56' 40" }			89°56' 50"									
13	S 221	22.615 ⁰⁸		270°03' 00" }				5.5								
14			AR.	98°16' 04"								252.86	⊙	221	Lat 69°56' 02"	
15	S 221 to			90°06' 48" }			90°07' 04"								251.9	
16	S 203+1135	22.615 ⁰⁸		269°52' 39" }				5.5								
17																
18	N	0							5.5					Δ		
19	W	14520		98°09' 26"			C		14.3			204	⊙	210	2019	
20																

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2nd

STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 34
 LINE No.(s) KD-23 PARTY No. 1182 DATE 19 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR R.R. ALLEN RODMAN F. 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		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	<u>X</u>	<u>0</u>										<u>209.6</u>	<u>204</u>	<u>Δ</u>	<u>210</u>	
4	<u>E</u>	<u>1320</u>		<u>91°34' 07"</u>		<u>C</u>							<u>168</u>		<u>211</u>	
5	<u>"</u>	<u>2640</u>		<u>90°50' 59"</u>		<u>C</u>							<u>166</u>		<u>212</u>	
6	<u>"</u>	<u>3135</u>		<u>90°11' 47"</u>		<u>C</u>							<u>197</u>		<u>212+</u>	<u>495 (Pin)</u>
7	<u>X</u>	<u>0</u>											<u>204</u>	<u>○</u>	<u>210</u>	
8																
9																
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. 35
 LINE No.(s) KD-93 PARTY No. 1182 DATE 19 Day 4 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		A.B.S. OF S. S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD				
1			Refer to page #33 of this line										252.86		221		
2	E	2640		89°57'58"		C							254.3		Δ D		
3	E	2640		270°01'37"		C									Δ R	NON-REC'D.	
4	W	7920		90°11'56"		C							214		219		
5	"	6600		90°21'00"		C							201		214		
6	"	5280		90°19'15"		C							211		215		
7	"	3960		90°28'06"		C							208		216		
8	"	2640		90°20'18"		C							225		217		
9	"	1320		90°04'06"		C							239		218		
10	X	0											249		219		
11	E	1320		90°05'28"		C							238		220		
12	"	2640		89°57'58"		C								○	221 D		
13	"	"		270°01'37"		C							252.86	○	221 R	2495 250.3	
14	X	0											258.4		Δ		
15	E	1320		90°09'21"		C							240.5	±	222		
16	Sp. 221-165			90°02'49"			90°03'01"						252.86		221	Top of page ↑ ELEV.	
17	Sp. 237+165	21,275.00		269°56'47"											5.5		
18			Az.	98°16'57"									243.01	○	237+165		
19	Sp. 237+165			89°59'59"			89°59'50"										LAT. 69°55'32"
20	16-Sp/21	21,275.00		269°59'59"											5.5		238.8

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STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 36
 LINE No.(s) KD-93 PARTY No. 1182 DATE 20 Day 4 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		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2															
3	W	8745		89°49'57"	C										
4	"	"		270°09'47"	C						231.5		Δ	R	
5	"	7425		90°09'53"	C							197			223
6	"	6105		90°18'12"	C							186			224
7	"	4785		90°23'01"	C							186			225
8	"	3465		90°31'26"	C							186			226
9	"	2145		90°51'23"	C							185			227
10	W	825		91°55'15"	C							190			228
11	K	0										226			228+825 (P.in)
12	E	495		90°18'39"	C							215			229
13	"	1815		90°27'32"	C							203			230
14	"	2668		90°18'26"	C							203	0		230+853 Int. 93+96
15	K	0										208.1	Δ		PIPE 1979
16	S	51	-	90°	C							202.1	0		Sp 34-KD-96
17															
18															Refer to page # 3
19															of KD-L-30-A for elev.
20															197.0

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STADIA SURVEY NOTES

AREA Ikpiqpuuk - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 37
 LINE No.(s) KD-93 PARTY No. 1182 DATE 20 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K. R. ALLEN RODMAN T. VAN ALLEN WEATHER: +15° CLEAR P.T.S. No. _____

L N	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		0														
5	W	8085		90°15' 37"		C										
6		6765		90°21' 16"		C										
7		5445		90°23' 14"		C										
8		4125		90°23' 08"		C										
9		2805		90°10' 27"		C										
10		1485		90°46' 31"		C										
11	W	165	-			C										
12	N	0														
13	E	1155		89°43' 44"		C										
14																
15	S	237+165		89°37' 21"				89°37'25"								
16	S	238+165	1319.42	270°22' 32"												
17			Az.	111°16' 24"												
18	S	238+165		90°24' 03"				90°24'13"								
19	S	237+165	1319.42	269°35' 37"												
20																

TI-588B

WORKED BY

K. R. Allen

CHECKED BY

Harman J. Hunter

2nd

STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 38
 LINE No. (s) KD-93 PARTY No. 1182 DATE 20 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR R. 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												251.99		238+165	
3															
4	Sp 238+165			89°52'03"				89°52'11"							
5	to-A SUE	11,212.07		270°07'41"					5.5						
6			Ag.	81°51'04"								279.79	Q	A SUE	Lat. 69°55'42"
7	A Sue-to-			90°09'01"				90°09'11"							
8	Sp 238+165	11,212.07		269°50'40"					5.5						ELEV. 280.0
9															279.79
10															Tie -0.21
11															NOT USED FOR
12															TE
13															
14												280.0		TRI STA. SUE	
15	A Sue-to-			90°09'01"				90°09'11"							
16	Sp 238+165	11,212.07		269°50'40"					5.5						
17			Ag.	261°51'04"								252.30	Q	238+165	
18	Sp 238+165			89°52'03"				89°52'11"							Lat. 69°55'27"
19	to-A SUE	11,212.07		270°07'41"					5.5						248.0
20															

TI-588B

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CHECKED BY 1st Herman Fuentes 2nd

STADIA SURVEY NOTES

AREA Ikpikpak - Keq Creek STATE or PROVINCE North Slope Alaska PAGE No. 39
 LINE No.(s) KD-93 PARTY No. 1182 DATE 20 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K. R. Allen RODMAN T. VAN ALLEN WEATHER: Cloudy 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											252.30		238+165		
2	N	0										Δ			
3	E	1155		90°39' 12"		C					230		239		
4	"	2475		90°38' 35"		C					195		240		
5	"	3795		90°43' 25"		C					173		241		
6	"	5115		90°12' 29"		C					225		242		
7															
8	S	238+165		90°10' 48" }			90°10'56"								
9	N	245+825	9895.66	269°48' 56" }				5.5							
10			Az.	111°15' 50"							223.73	0	245+825		
11	S	245+825		89°50' 55" }			89°51'05"							Lat. 69°53'10"	
12	N	238+165	9895.66	270°08' 46" }				5.5						219.4	
13															
14	N	0													
15	W	3465		90°20' 17"		C					203		243		
16	"	2145		90°32' 18"		C					195		244		
17	W	825		90°32' 31"		C					207		245		
18	N	0									224		245+825 (P.N)		
19	E	330		91°12' 24"		C					203		245+1155	"	
20	E	495		90°54' 40"		C					196		246		

TI-588B

WORKED BY Kenneth R. Allen CHECKED BY 1st Heuman Fuentes 2nd _____

STADIA SURVEY NOTES

AREA Ikpiqruk - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 40
 LINE No.(s) KD-93 PARTY No. 1182 DATE 20 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.R. ALLEN RODMAN T. VAN ALLEN WEATHER: CLEAR P.T.S. No. _____

L U	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	E	1815		90°37' 45"	C			14.3				195			247	
3	"	3135		90°22' 37"	C			14.3				194			248	
4	"	4455		90°15' 31"	C			14.3				195			249	
5																
6	S 245+825			89°50' 31"	}	89°50'47"										
7	S 257+660	15,668.12		270°08' 58"		}	5.5									
8			Az.	111°15' 50"	}		90°11'36"						271.17	○	257+660	
9	S 257+660			90°11' 27"		}	5.5									
10	S 245+825	15,668.12		269°48' 16"	}											
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA Tepikput - Key Creek STATE or PROVINCE North Slope Alaska PAGE No. 41
 LINE No.(s) KD-93 PARTY No. 1182 DATE 20 Day 4 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		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1	E	5115	D	89°47'	31"				5.5				271.17		257+660	
2	"	"	R	270°12'	20"	C			5.5			257.7		Δ		
3	W	6930		90°09'	13"	C			14.3				225.8		249+495	
4	"	6105		90°13'	33"	C			14.3				220.1		250	
5	"	4785		90°50'	32"	C			14.3				173.5		250+1155	
6	"	3465		90°52'	29"	C			14.3				190.7		251	
7	"	2145		90°51'	55"	C			27.1				198.3		252	
8	"	825		90°23'	15"	C			14.3				237.8		253	
9	E	495		90°38'	35"	C			14.3				237.8		254	
10	"	1815		90°15'	41"	C			14.3				235.1		255	
11	"	3135	-			C			5.7				252.2		256	
12	"	4455		89°50'	00"	C			5.1				265.9		257	LINE HT. 257/37-95
13	"	5115	D	89°47'	31"				5.5					○	257+660	"PIPE"
14	"	"	R	270°12'	20"				5.5				271.17	○	"	"
15																
16																
17																
18																
19																
20																

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WORKED BY

Kenneth R. Allen

CHECKED BY 1st

Harman Zuercher 2nd

STADIA SURVEY NOTES

AREA Ikpikput - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 42
 LINE No.(s) KD-93 PARTY No. 1182 DATE 20 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K. R. ALLEN RODMAN T. VAN ALLEN WEATHER: CLEAR P.T.S. No. _____

LINE	Bedding 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												271.17		257+660	
3	<u>X</u>	<u>0</u>													
4	<u>E</u>	<u>660</u>		<u>90°27' 57"</u>		<u>C</u>						<u>14.3</u>	<u>257</u>	<u>258</u>	<u>LINE INT. 93 & 95. pipe</u>
5	"	<u>1980</u>		<u>91°07' 58"</u>		<u>C</u>						<u>14.3</u>	<u>223</u>	<u>259</u>	
6	"	<u>3300</u>		<u>90°54' 03"</u>		<u>C</u>						<u>14.3</u>	<u>210</u>	<u>260</u>	
7	"	<u>4620</u>		<u>90°46' 54"</u>		<u>C</u>						<u>14.3</u>	<u>201</u>	<u>261</u>	
8	"	<u>5940</u>		<u>90°44' 03"</u>		<u>C</u>						<u>14.3</u>	<u>186</u>	<u>262</u>	
9	"	<u>7260</u>		<u>90°35' 21"</u>		<u>C</u>						<u>14.3</u>	<u>188</u>	<u>263</u>	
10															
11	<u>Sp 257+660</u>			<u>89°59' 22"</u>				<u>89°59'33"</u>							
12	<u>Sp 266</u>	<u>11,215.95</u>		<u>270°00' 16"</u>											
13			<u>AZ.</u>	<u>105°21' 43"</u>									<u>274.43</u>	<u>266</u>	<u>LAT. 69°53'26"</u>
14	<u>Sp 266-A-</u>			<u>90°01' 22"</u>				<u>90°01'33"</u>							<u>270</u>
15	<u>Sp 257+660</u>	<u>11,215.95</u>		<u>269°58' 16"</u>											
16															
17	<u>X</u>	<u>0</u>													
18	<u>W</u>	<u>2640</u>		<u>91°54' 38"</u>		<u>C</u>							<u>178</u>	<u>264</u>	
19	"	<u>1320</u>		<u>91°58' 30"</u>		<u>C</u>							<u>220</u>	<u>265</u>	
20	<u>X</u>	<u>0</u>											<u>274.43</u>	<u>266</u>	

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STADIA SURVEY NOTES

NPR # 4

AREA IKPIKPIK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 43
 LINE No.(s) 93 PARTY No. 1182 DATE 21 Day 04 Mo. 77 Yr. BOOK No.
 SURVEYOR FRANK W. WITTIERODMAN TIM VANALEN WEATHER: High scattered clouds,
Light wind, 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		
1											274.43	266		
2	<u>π</u>	<u>0</u>	<u>-</u>											
3	<u>EAST</u>	<u>1320</u>		<u>90-21-19</u>		<u>C</u>					<u>257</u>	<u>267</u>		<u>8:45 A.M.</u>
4	"	<u>2640</u>		<u>90-11-20</u>		<u>C</u>					<u>257</u>	<u>268</u>		
5	"	<u>3960</u>		<u>90-07-41</u>		<u>C</u>					<u>257</u>	<u>269</u>		
6	"	<u>5280</u>		<u>90-11-19</u>		<u>C</u>					<u>240</u>	<u>270</u>		
7	"	<u>6600</u>		<u>SEE PAGE #45</u>							<u>224</u>	<u>271</u>		
8	"	<u>7920</u>		<u>90-09-48</u>		<u>C</u>					<u>232</u>	<u>272</u>		
9	"	<u>9240</u>		<u>SEE</u>							<u>200</u>	<u>273</u>		
10	"	<u>10560</u>		<u>PAGE #45</u>							<u>196</u>	<u>274</u>		
11	<u>4</u>	<u>11880</u>		<u>90-08-41</u>		<u>C</u>					<u>226</u>	<u>275</u>		
12	"	<u>13200</u>		<u>SEE</u>							<u>201</u>	<u>274</u>		
13	"	<u>14520</u>		<u>PAGE #45</u>							<u>203</u>	<u>277</u>		
14	"	<u>15840</u>		<u>90-06-27</u>		<u>C</u>					<u>236</u>	<u>278</u>		
15	"	<u>17160</u>		<u>90-03-36</u>		<u>C</u>					<u>248</u>	<u>279</u>		
16	"	<u>18480</u>		<u>SEE</u>							<u>219</u>	<u>280</u>		
17		<u>19800</u>		<u>PAGE #45</u>							<u>221</u>	<u>281</u>		
18	<u>SP266</u>	<u>2112</u>		<u>90-00-36</u>		<u>90°00'40"</u>								<u>LINE 1182</u> <u>20-21-1151-93</u> <u>SP 11103-90</u> <u>(194)</u>
19	<u>SP282</u>	<u>2112</u>		<u>269-59-16</u>										
20			<u>A2</u>	<u>10523</u>	<u>29</u>						<u>277.60</u>	<u>282</u>		<u>10:30 A.M.</u>

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WORKED BY Kenneth J. [Signature]

CHECKED BY Hansen [Signature]

2nd

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STADIA SURVEY NOTES

NPR #4

AREA LKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 44
 LINE No.(s) 93 PARTY No. 1182 DATE 21 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTE RODMAN T. VAN ALLEN WEATHER: High scattered clouds,
Light wind, sunny +10° 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	SP 282 to			90-01-34 C			90°01'42"					277.60		282	Lat. 69°52'29"	
3	SP 266	21112.37		269-58-11 S					5.5							
4																
5	▲	0	-						5.5					△		
6	EAST	1320		89-51-35 C					14.3			292		283		
7	"	2640		90-09-49 C					14.3			261		284		
8	"	3960		89-56-07 C					14.3			273		285		
9	"	5280		SEE								234		286		
10	"	6600		PAGE # 45								229		287		
11	"	7920										235		288		
12	"	9240		89-58-52 C					14.3			272		289		
13	"	10560		SEE								231		290		
14	"	11880										198		291		
15	"	13200		PAGE # 46								199		292		
16	"	14520										225		293		
17	"	15840		90-01-02 C					21.2			257		294		
18	"	17160		89-56-42 C					14.3			285		295		
19																
20																

T1-588B

WORKED BY Kenneth R. Olsen

CHECKED BY 1st Herman Fuentes

2nd

STADIA SURVEY NOTES

NPR #4

AREA 1KPIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 45
 LINE No.(s) 93 PARTY No. 1182 DATE 21 Day 04 Mo. 77 Yr. BOOK No.
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALLEN WEATHER: high scattered clouds
light wind, sunny, +10° P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
1											240		270	REFER TO p. 43	
2	\wedge	0	-					5.5			246	Δ			
3	EAST	1320		90-19-51		C		14.3			224		271		
4															
5											226		275	REFER TO p. 43	
6	\wedge	0	-					5.5			232	Δ			
7	West	2640		90-22-39		C		14.3			200		273		
8	"	1320		90-56-27		C		14.3			196		274		
9	EAST	1320		90-42-26		C		14.3			201		276		
10	"	2640		90-18-20		C		14.3			203		277		
11															
12											248		279	REFER TO p. 43	
13	\wedge	0	-					5.5			254	Δ			
14	EAST	1320		90-52-27		C		14.3			219		280		
15	"	2640		90-23-30		C		14.3			221		281		
16											273		285	REFER TO p. 44	
17	\wedge	0	-					5.5			279	Δ			
18	EAST	1320		90-51-47				25.1			234		286		
19	"	2640		90-46-37				14.3			229		287		
20	"	3960		90-25-31				14.3			235		288		

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WORKED BY Kenneth R. Ollens

CHECKED BY 1st

Human Fuentes

2nd

STADIA SURVEY NOTES

NPR #4
 AREA IKPIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 46
 LINE No. (s) 93 PARTY No. 182 DATE 21 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN TIM VANALEN WEATHER: high scattered clouds, sunny, P.T.S. No. _____
light breeze +20°

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												277.60		282		
2	SP282 to			89-57-05			89°57'17"									
3	SP295+330			270-02-31				5.5								BEST OF 4 Δ's.
4			A2	104°04'32"								294.42	①	295+330		
5	SP295+330 to			90-03-46			90°03'54"									Lat. 69°51'46"
6	282	17482.33		269-55-59				5.5								289.8
7																
8																
9	Δ	0	-					5.5						Δ		
10	WEST	6930		90-27-01		C		14.3				231		290		
11	"	5010		90-53-31		C		14.3				198		291		
12	"	4290		91-09-20		C		14.3				199		292		
13	"	2970		91-09-55		C		14.3				225		293		
14	EAST															
15	"	990		92-25-50		C		14.3				244		296		
16	"	2310		90-50-40		C		14.3				252		297		
17																
18																
19																
20																

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CHECKED BY 1st

Human Fuentes

2nd

STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 47
 LINE No. (s) 93 PARTY No. _____ DATE 21 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN TIM VANALEN WEATHER: high scattered clouds, sunny P.T.S. No. _____
light breeze + 28°

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle of Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1															295+330	
2	East	3630		90-03-07		C			14.3				282		298	
3																
4	SP 295+330 to			89-55-25												
5	SP 298+825			270-04-22					5.5							
6			A ₂	104°36'32"									300.65		298+825	
7	SP 298+825 to			90-05-05												Lat. 69°51'35"
8	SP 295+330 4453 ⁰⁵			269-54-48					5.5							296.0
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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WORKED BY Frank W. Wittie, Rodman

CHECKED BY 1st Herman Fuentes 2nd _____

STADIA SURVEY NOTES

NPR #4
 AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 48
 LINE No. (s) 93 PARTY No. 1182 DATE 22 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN TIM VANALEN WEATHER: high scattered clouds, sunny, windy, +15° 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												300.65		298+R25	
2	\nearrow	0	-						5.5					\triangle	
3	EAST	495	-			C			10.5			296		299	
4	"	1815		90-53-40		C			26.1			252		300	
5	"	3135		SEE PAGE #49								214		301	
6	"	4455		91-03-09		C			21.5			203		302	
7	"	5775		90-39-30		C			14.3			225		303	
8	"	7095		90-28-12		C			14.3			234		304	
9	"	8415		90-28-37		C			14.3			221		305	
10	"	9735		90-12-17		C			14.3			257		306	PIPE MARK
11	"	11055		90-07-49		C			20.2			261		307	LINE INT. 307+1205
12	"	12375		90-00-46		C			14.3			289		308	1.97 S. SP. 31+130-91
13	"	13605		89-55-03		C			14.3			311		309	(DIST. 13695)
14	"	15015		89-50-27		C			14.3			334		310	
15	"	16335		89-51-49		C			14.3			331		311	
16	"	17655		89-53-02		C			25.1			317		312	
17	"	18975		89-51-48		C			24.9			327		313	
18	"	20295		89-49-30		C			14.3			354		314	
19									5.5						
20															

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 49
 LINE No. (s) 93 PARTY No. 1182 DATE 22 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: high scattered clouds, sunny P.T.S. No. _____
Windy +20°

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD		
1													300.65	298+825	
2	SP298+825 TO														
3	SP 314+495	20.780		89-51-14			69'51.19"	5.5							
4				770-08-37											
5			Az.	104°36'04"									359.94	314+495	355.2
6	SP314+495 TO			90-10-47			90'10.56"								Lat. 69°50'41"
7	SP298+825			269-48-56				5.5							
8													203	302	REFER TO P. 48
9	WEST	1320		89-32-48		C		5.5			209			301	
10															
11															
12													359.94	314+495	
13	EAST	825		90-24-12		C		5.5							
14	"	2145		90-21-15		C		14.3					345	315	
15	"	3465		90-02-52		C		14.3					338	316	
16	"	4785		89-43-05		C		14.3					348	317	
17	"	8105		89-48-10		C		25.7					375	318	
18	"	7425		SEE PAGE 50									361	319	
19													346	320	
20															

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NPR #4


STADIA SURVEY NOTES

AREA IKPIKPUK KEY CREEK STATE or PROVINCE ALASKA PAGE No. 50
 LINE No. (s) 93 PARTY No. 1182 DATE 22 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIERODMAN T. VANALEX 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												359.94		314+495	
2	EAST	8745		SEE BELOW		C								321	
3	"	10065		89-45-37		C						368		322	
4		1560													
5	SP 314+495 TO			89-49-23			89° 49' 30"								
6	SP 322+495			270-10-24					5.5						
7		10555 ⁵⁷	A2	107° 38' 51"										322+495	
8	SP 322+495 TO			90-11-57			90° 11' 49"								LAT. 69° 50' 08"
9	SP 314+495			269-48-18					5.5						
10															
11												359.94		314+495	
12	SP 314+495 TO			89-50-35			89° 50' 39"								
13	TR1 - STA ALPHA			270-09-19					5.5						
14			A2	62° 17' 14"								403.67		322+495	Delta ALPHA LAT. 69° 50' 29"
15	TR1 - STA TO			90-10-49			90° 10' 46"					399.0			Elev. 399.0 399.0
16	SP 314+495 TO			269-49-17					5.5			+467	HIGH.		
17												361		319	REFER TO p. 49
18	T	0	-						5.5						
19	EAST	2040		90-01-38					14.3			351		321	
20	W	1320		90-15-20					14.3			346		320	

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STADIA SURVEY NOTES

AREA IKPIK PUR - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 51
 LINE No.(s) 93 PARTY No. 1182 DATE 22 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTE RODMAN T. VAN ALLEN WEATHER: CLEAR, SUNNY, BRIGHT, CALM P.T.S. No. _____
+30° @ 3:20 P.M.

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			▲B.S. OF.S. -S.S.
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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1ST

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CHECKED BY 1st _____

2nd _____

LINE 104
53-52 PIPE
SP-331-93
SP-16-92
(PIPE)

STADIA SURVEY NOTES

NPR #4

AREA 1KPIK PUR - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 52
 LINE No.(s) 93 PARTY No. 1182 DATE 22 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIERODMAN T. UNNALEN WEATHER: SAME P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												389.22		322+495		
2	EAST	14025		90-11-44		C			25.2			322		333		
3	"	15345		90-12-18		C			20.9			319		334		
4	"	16665		90-13-18		C			24.5			306		335		
5	"	17985		90-11-42		C			14.3			319		336		
6	"	19305		90-08-33		C			14.3			332		337		
7	"	20625		90-08-30		C			26.4			317		338		
8	"	21945		90-08-35		C			14.3			326		339		
9	"	23265		90-07-58		C			14.3			327		340		
10																
11	SP 322+495 TO			90-08-40			90°08'40"									
12	SP 340+165		23.423.65	269-51-20					5.5							
13			A2	107°37'11"								319.09	⊙	340+165		
14	SP 340+165 TO			89-48-05			89°48'05"								Lat. 69°48'55"	
15	SP 322+495		23.423.65	270-11-56					5.5							
16																
17																
18																
19																
20																

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Kenneth R. Allen

CHECKED BY 1st

Herman Fuentes

2nd

STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 53
 LINE No.(s) K.T. - 9.3 PARTY No. 1182 DATE 23 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. Wittie 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.	ROD			
1															340+165	
2	T	0														
3	E	1155		90°35'49"		C						298			341	
4	"	2475				C						310			342	
5	"	3795		90°04'17"		C						306			343	
6	"	5115		90°09'34"		C						284			344	
7																
8	S 340+165			89°57'50"				89°57'59"								
9	P.F. #17	13194 ²¹		270°01'53"												
10			Az.	107°37'41"												
11	P.F. #17-16											328.94	⊙		P.F. #17	
12	S 340+165	13194 ²¹		90°03'02"				90°03'07"								Lot. 69°48'13"
13				269°52'48"												
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

NPR #4

AREA 1 KPIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 54
 LINE No.(s) 93 PARTY No. 1182 DATE 23 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTE RODMAN T. VAN ALEN WEATHER: SAME, WINDY + 20° 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												328.94		PF #17	
2	\nearrow	0	-						5.5					Δ	
3	WEST	6765		90-37-15				14.3				247		345	
4	"	5445		90-54-11				14.3				234		346	
5	"	4290		90-30-43				14.3				282		PF #4	
6	"	2970		91-43-11				14.3				231		" #8	
7	"	1650		92-03-14				23.5				251		" #12	
8															
9	EAST	990		90-31-36				14.3				311		PF #20	
10	"	2310		90-37-15				14.3				294		" #24	
11															
12	PF #17 TO			89-59-05		89°59'10"									
13	TRI-STA GINNA	8954.04		270-00-46				5.5							
14			Az.	191°03'35"								332.33	\odot	Δ GINNA U.S.E.	
15	TRI-STA GINNA TO			90-01-47		90°01'46"									ELEV 325.0
16	PF #17	8954.06		269-58-15				5.5							332.33
17														TIE	+ 7.33
18															
19															REFER TO NEXT PAGE FOR RETURN
20															Δ Aphaa to Δ GINNA

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STADIA SURVEY NOTES

RERUN

AREA 1K PIR PUK - KEYCREEK STATE or PROVINCE ALASKA PAGE No. 55
 LINE No.(s) 93 PARTY No. 1182 DATE 25 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN TIM VANALEX WEATHER: overcast, whiteout, light snow P.T.S. No. _____
+32°, Trying to rain, light breeze

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												399.0		APHRA	
2	⊥	0	-											△	
3	APHRA to			90-06-30		90°06'41"									
4	SP 322+495			269-53-15											
5			Az.	245°20'01"								389.25	⊙	322+495	
6	SP 322+495 to			89-54-01		89°54'08"									Lat. 69°50'29"
7	APHRA	5343.07		270-05-45											
8															
9															322+495
10	⊥	0	-											△	
11	SP 322+495 to			90-17-10		90°17'16"									
12	SP 330	10,062.88		269-42-38											
13			Az.	107°37'11"								340.74	⊙	330	Lat. 69°49'33"
14	SP 330 to			89-43-54		89°44'07"									
15	SP 322+495			270-15-41											
16															330
17	⊥	0	-											△	
18	SP 330 to			90-38-47		90°39'00"									
19	SP 331 L-93			269-20-47											
20		1319.59	Az.	287°37'11"								325.86	⊙	SP 331 L-93 / SP 16 L-92	Lat. 69°49'33"

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STADIA SURVEY NOTES

AREA: 1KPIK'PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 56
 LINE No.(s) 93 PARTY No. 1182 DATE 25 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN, T. VAN ALEN WEATHER: overcast, snowing, windy P.T.S. No. _____
+30

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													325.84		331 A-93/16 L-92	
2	SP331/16 TO			89-21-17			89 21 28"									
3	SP 330	1319.59		270-38-22												
4																
5	A	0														
6	SP334/16 TO															
7	SP															
8													340.74		330 REFER TO P.	
9	A	0														
10	SP330 TO			90-04-20			90°04'30"									
11	SP337	9237.14		269-55-21												
12			Re.	107°57'11"									330.44	⊙	337 LAT. 69°48'55"	
13	SP337 TO			89-56-48			89°56'50"									
14	SP330	9237.14		270-03-08												
15																337
16	A	0														
17	SP337 TO			90-07-40			90°07'53"									
18	SP340+165			269-51-54												
19		4123.72	Re.	107°57'11"									321.23	⊙	340+165	
20																LAT. 69°48'55"

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STADIA SURVEY NOTES

NPR #1
 AREA IKPIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 59
 LINE No.(s) 93 PARTY No. _____ DATE 25 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: overcast, white out, +28° P.T.S. No. _____
light breeze

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											321.23	340+165		
2	SA 340+165 TO			89-52-34		89°52'32"								
3	SP 337	4123.72		270-07-29				5.5						
4												340+165		
5	T	0	-					5.5					Δ	
6	SP 340+165 TO			89-58-16		89°58'15"								
7	PIN Flag #17	13194.01		270-07-46				5.5						
8			Az.	107°37'41"						329.87	○	PIN Flag #17		
9	SP #17 TO			90-02-28		90°02'45"							Lat. 69°48'13"	
10	SP 340+165			269-56-58				5.5						
11														
12										321.23		340+165		
13	T	0	-					5.5					Δ	
14	SP 340+165 TO			89-59-02		89°59'06"								
15	TRI-STA GINNA	16776.88		270-00-51				0.0						
16			Az.	139°39'00"						332.53	○	GINNA		
17	TRI-STA GINNA			90-03-35		90°03'44"							Lat. 69°46'47"	
18	SP 340+165			269-56-07				5.5			Elev. & from top map		ELEV. 325.0	
19													332.53	
20													TRE. + 7.53	

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