

STADIA SURVEY NOTES

AREA Ikpikpuk - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 1
 LINE No. (s) KD-97 PARTY No. 1182 DATE 1 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR H. R. Allen RODMAN T. VanAllen WEATHER: Clear P.T.S. No. _____

LINE	Sighting of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2															
3											208.1			Sp 2-KD-L-96	
4	N	1815		89°16' 26"		C					187.°		Δ	line int	
5	T	0									181.3			Sp 4-KD-97 SP-4+00-97	
6	E	1320	-			C					182			3 SP-3+495-96	
7	"	2640		89°15' 10"		C					207.3			2	
8	"	3960		89°17' 19"		C					221.2			1 Pipe 2	
9	"	5115		89°12' 56"		C					243.3			TAIL Group 4	
10	E	6435		89°18' 19"		C					251.6	○		" 8	
11	W	825	-			C					257.9		Δ		
12		0									252.1			" 11	
13	E	1650		90°50' 25"		C					219.5			" 16	
14	"	2970		90°37' 46"		C					211.2			" 20	
15	"	4290		90°23' 57"		C					214.1			" 24	
16		0									252.1	○			
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 2
 LINE No.(s) KD-97 PARTY No. 1182 DATE 1 Day 4 Mo. 77 Yr. BOOK No.
 SURVEYOR K. P. ALLEN RODMAN T. VANALEN WEATHER: CLEAR P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2															
3												252.1		TAIL Group 11	
4	Tail Group 11			90°15'46"				90°15'55"							
5	to Sp 7	11.385		269°43'52"					5.5						
6			Asimuth	280°35'00"								202.78	0	Sp 7	ELEV. check
7	Sp 7 - to -			89°46'07"				89°46'07"							OK
8	Tail Gr. 11	11.385		270°13'54"					5.5						
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. 3
 LINE No.(s) KD-97 PARTY No. 1182 DATE 1 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		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.		
1														
2														
3														
4	E	3960		90° 11' 51"	C			14.3			208.9	181.3	Sp 4	181.6
5	"	2640		90° 09' 08"	C			20.8				181.3	5	
6	"	1320	-		C			7.8				201.2	6	Pipe
7	N	0						5.7				203.2	7	
8	W	1320		90° 15' 50"	C			14.3				188.6	8	
9	"	2640		90° 39' 30"	C			20.8				157.9	9	
10	"	3960		90° 32' 10"	C			14.3				157.9	10	
11	"	5280		90° 15' 18"	C			14.3				171.7	11	
12	"	6600		90° 18' 02"	C			14.3				160.9	12	
13	"	7920		90° 15' 17"	C			14.3				160.7	13	
14	"	9240		90° 01' 42"	C			5.5				200.6	14	
15		0						5.7				203.2	7	203.6
16	Sp 7-to-			90° 00' 47" ↘		90° 00' 44" ↗								
17	Sp 18	14,510 ⁸²		269° 59' 18"										
18				Azimuth 280° 33' 36"								204.11	18	204.6
19	Sp 18-to-			90° 01' 15" ↘		90° 01' 10" ↗								
20	Sp 7	14,510 ⁸²		269° 58' 55"										

TI-558B

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STADIA SURVEY NOTES

AREA Ikpikruk - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 4
 LINE No.(s) KD-97 PARTY No. 1182 DATE 1 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		▲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													204.1		18	
4	W	1155		89°46'34"	C				6.0			205.6		Δ		
5	E	2805		90°36'43"	C				14.9				161.5		15	
6	"	1485		91°07'40"	C				14.2				162.1		16	
7	"	330		92°30'38"	C				14.3				176.8		Pin	
8	"	165	-		C				-9.4				196.2		17	
9	∧	0							58				199.8		Pin	
10	W	1155		89°46'34"	C				6.0				204.1	⊙	18	
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. 5
 LINE No.(s) KD-97 PARTY No. 1182 DATE 2 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR H. 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		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											204.11		18		
2	λ	0						5.0				Δ			
3	W	1320		90°11' 35"	C			14.3			191		19		
4	"	2640		90°28' 17"	C			14.3			174		20		
5	"	3960		90°13' 44"	C			14.3			180		21		
6	"	5280		90°14' 04"	C			14.3			174		22		
7	"	6600		90°18' 36"	C			14.3			160		23		
8	"	7920		90°15' 27"	C			14.3			160		24		
9	"	9240		90°12' 40"	C			14.3			161		25		
10	W	10,560		90°16' 27"	C			14.3			163		26		
11															
12	Sp 18-to-			90°11' 24" }		90°11' 22"									
13	Sp 26+495	11047.68		269°48' 41" }				5.2							
14				Azimuth. 275°35' 00"							170.39	①	26+495		
15	Sp 26+495			89°50' 30" }		89°50' 23"								171.0	
16	to-Sp 18	11047.68		270°09' 43" }				5.5							
17															
18															
19															
20															

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AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 6
 LINE No.(s) KD-97 PARTY No. T. VAN ALLEN DATE 2 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K. E. ALLEN RODMAN 1182 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.			
1											170.39		26+495		
2	K	0						5.6				Δ			
3	W	825		90°08'20"		C		14.3			160		27		
4	"	2145		90°19'05"		C		14.3			150		28		
5		3465		90°13'47"		C		14.3			148		29		
6		4785		90°15'17"		C		14.3			140		30		
7															
8	Sp 26+495			90°21'59"		90°21'56"									
9	to Sp 30	4782.44		269°38'06"				5.5							
10				Azimuth 275°37'33"							140.31	⊙	30	141.0	
11	Sp 30-to-			89°38'43"		89°38'41"									
12	Sp 26+495	4782.44		270°21'20"				5.5							
13															
14	K	0						5.6				Δ			
15	W	1320		89°28'58"				14.3			144		31		
16															
17	Sp 30-to-			89°26'11"		89°26'12"									
18	Sp 32	2638.42		270°33'48"				5.5							
19	Sp 32-to			90°34'42"		90°34'44"					166.61	⊙	32	Azimuth 269°37'24"	
20	Sp 30	2638.42		269°23'14"				5.5						PIPE 167.4	

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STADIA SURVEY NOTES

AREA Ikpiakuk - Key Creek STATE or PROVINCE North Slope ALASKA PAGE No. 6-A
 LINE No. (s) KD-97 PARTY No. 1182 DATE 2 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR R. R. ALLEN RODMAN T. VAN ALLEN WEATHER: CLEAR P.T.S. No. 1

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3												166.5'			Sp 32-L-97	
4	<u>N</u>	<u>0</u>										170.4		<u>Δ</u>		
5	<u>SE</u>	<u>2110</u>	<u>D</u>	<u>90°38'38"</u>									<u>141.5</u>	<u>0</u>	<u>Sp 127-L-99</u>	
6		"	<u>R</u>	<u>269°29'37"</u>	<u>C</u>							<u>143.1</u>	141.5		<u>REFER to PAGE 6-6-10</u>	
7												<u>MISTAKE</u>	<u>+1.2</u>		<u>of Line KD-99 in elev</u>	
8															<u>MEAN VALUE</u>	
9															<u>142.3</u>	
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA Ikprkuk - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 7
 LINE No.(s) RD-92 PARTY No. 1182 DATE 3 Day 4 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		B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair.			INST.	ROD			
1												166.61		32	167.4	
2	X	0														Δ
3	W	1320		89°31'	06"	C						169		33		
4	"	2640		89°41'	35"	C						172		34		
5	"	3960		89°39'	40"	C						181		35		
6																
7	Sp 32 - to -			89°46'	01"	2	89°45'58"									
8	Sp 35 + 495	4452.33		270°14'	04"											5.5
9				Azimuth	269°36'31"							185.69	⊙	Sp 35 + 495		
10	Sp 35 + 495			90°15'	42"	2	90°15'26"									187.0
11	A - Sp 32	4452.33		269°44'	50"											5.5
12																
13	X	0														Δ
14	W	825		90°10'	42"	C						175		36		
15	"	2145		90°34'	51"	C						155		37		
16	"	3465		90°13'	30"	C						163		38		
17	"	4785		90°18'	25"	C						151		39		
18	"	6105		90°14'	33"	C						151		40		
19	"	7425		90°12'	10"	C						151		41		
20	"	8745		90°10'	17"	C						151		42		

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STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 8
 LINE No.(s) K.D. - 97 PARTY No. 1182 DATE 3 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K. E. 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	Correction			Center Hair	INST.		
1														
2	Sp 35+495			90° 12' 07" } 269° 48' 26" }		90° 11' 51"								
3	to Sp 43	10,058. ⁹⁶												
4				Azimuth 269° 35' 25"						153.70	0	43	155.6	
5	Sp 43-to-			89° 50' 19" } 270° 10' 22" }		89° 49' 59"								
6	Sp 35+495	10,058. ⁹⁶												
7	∩	0												
8	W	1320		89° 43' 42" } C						160		44		
9														
10	Sp 43-to-			89° 14' 22" } 270° 45' 57" }		89° 14' 12"								
11	Sp 44+825	2143. ⁷¹												
12				Azimuth 266° 05' 48"						182.64	0	44+825		
13	Sp 44+825			90° 47' 15" } 269° 13' 13" }		90° 49' 01"							184.7	
14	Sp 43	2143. ⁷¹												
15	∩	0												
16	Sp 44+825			90° 12' 56" } 269° 47' 22" }		90° 12' 44"								
17	to Sp 50	7090. ⁷⁴												
18				Azimuth 265° 57' 57"						157.63	0	50	160.1	
19	Sp 50-to-			89° 48' 24" } 270° 11' 24" }		89° 48' 30"								
20	Sp 44+825	7090. ⁷⁴												

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STADIA SURVEY NOTES

AREA Ikpikuk - Key Creek STATE or PROVINCE North Slope ALASKA PAGE No. 9
 LINE No.(s) ND-97 PARTY No. 1182 DATE 3/4 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		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.		
1											157.63	50		
2	N	0						5.3					Δ	
3	E	6600		89° 44' 30"	C			14.3			178.	45		
4	"	5280		90° 01' 19"	C			14.3			147	46		
5	"	3960		90° 13' 44"	C			14.3			133	47		
6	"	2640		90° 14' 55"	C			14.3			137	48		
7	E	1320	-		C			9.3			154	49		
8														
9	Sp 50-to-			90° 32' 22"		90° 32' 27"								
10	Sp 521825	3462.92		269° 27' 29"				5.5						
11				Azimuth 265° 53' 46"							125.09	521 825		
12	Sp 521825			89° 27' 52"		89° 27' 51"						127.8		
13	-to-Sp 50	3462.92		270° 32' 10"				5.5						
14														
15	N	0						5.3					Δ	
16	E	2145		89° 32' 30"	C			5.0			143	51		
17	"	1980		" " "	C			5.3			141	51+165 (PIN)		
18	"	825		89° 50' 26"	C			20.6			112	52		
19	"	660		" " "	C			9.7			123	52+165 (PIN)		
20														

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STADIA SURVEY NOTES

AREA Ikpiqpuk - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 10
 LINE No.(s) KD-97 PARTY No. 1182 DATE 4 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		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1														
2	W	330	-			C		14.0			116	52+1155 (P.N.)		
3	"	495									92	33		
4	"	1815		90°45'22"		C		14.3			92	54		
5	"	3135		90°27'08"		C		14.3			91	55		
6	"	4455		90°18'08"		C		14.3			93	56		
7	"	5775		90°16'49"		C		14.3			88	57		
8	"	7095		90°13'19"		C		14.3			89	58		
9	"	8415		90°12'11"		C		14.3			86	59		
10	"	9735		90°12'29"		C		14.3			81	60		
11	"	11055		90°08'19"		C		14.3			89	61		
12	"	12375		90°10'52"		C		14.3			77	62		
13	"	13695		90°07'36"		C		20.8			79	63		
14	"	15015		90°05'09"		C		20.8			87	64		
15	"	16335		90°04'19"		C		14.3			96	65		
16	Sp 52+825			90°05'18" } 90°05'12"										
17	Sp 65+110	16,435.14		289°54'54" }				5.5			93.82	65+110		
18				Azimuth 265°52'12"									94+97.5	
19	Sp 65+110			89°52'26" } 89°52'07"										
20	Sp 52+825	16,435.14		270°08'12" }				5.5						

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STADIA SURVEY NOTES

AREA Ikpikuk - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 11
 LINE No.(s) KD-97 PARTY No. 1182 DATE 4 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		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
1											93.82		65+110		
2		0										Δ			
3	W	1210		90°17'53"		C					79.		66		
4	"	2530		90°11'46"		C					77.		67		
5	"	3850		90°07'50"		C					77.		68		
6	"	5170		90°08'26"		C					73		69		
7	"	6490		90°07'09"		C					72		70		
8	"	7810		90°06'15"		C					71		71		
9	"	9130		90°05'48"		C					70		72		
10	"	10450		90°05'55"		C					67		73		
11	"	11770		90°00'26"		C					84		74		
12	"	13090		89°59'13"		C					88		75		
13															
14	Sp 65+110			90°00'12" } 90°00'11"											
15	to - Sp 79	18,358. ⁹⁸		269°59'50" }											
16				Azimuth 265°52'12"							100.01	⊙	79	104-8	
17	Sp 79 - to -			90°02'35" } 90°02'30"											
18	Sp 65+110	18,358. ⁹⁸		269°57'34" }											
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-97 PARTY No. 1182 DATE 4 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		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												100.01	79		
2		0						5.7						Δ	
3	E	3960	-				C	14.9				91	76		
4	"	2640	-				C	14.8				91	77		
5	"	1320	-				C	-7.5				98	78		
6	N	0						5.7				100.01	79		
7	W	1320	-				C	-9.7				96	80		
8	"	2640	-				C	7.2				99	81		
9	"	3960		89°57'	30"		C	14.3				94	82		
10	"	5280		89°58'	11"		C	14.3				94	83		
11	"	6600		89°58'	44"		C	14.3				94	84		
12	"	7920		90°00'	48"		C	14.3				90	85		
13	"	9240		90°00'	15"		C	14.3				91	86		
14	"	10560		89°58'	35"		C	14.3				96	87		
15	"	11880		89°57'	42"		C	14.3				99	88		
16	"	13200		89°46'	18"		C	14.3				144	89		
17	W	14520		89°48'	15"		C	14.3				141	90		
18															
19															
20															

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STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 13
 LINE No.(s) KD-97 PARTY No. 1182 DATE 4 Day 4 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		B.S. I.F.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2															
3	Sp 79-to-			89°46' 40" }		89°46'39'									
4	Sp 91	15,830. ⁵⁰		270°13' 22" }				5.5						171.8	
5				Azimuth 254°06'50"							166.09	⊙	91	Pipe = LINE INT SP-91+00-97	
6	Sp 91-to-			90°15' 35" }		90°15'21"								SP-17+00-98	
7	Sp 79	15,830. ⁵⁰		269°44' 53" }				5.5							
8															
9	T	0						5.6				Δ			
10	W	1320		90°17' 54"	C			14.3			151		92		
11	"	2640		90°04' 08"	C			14.3			154		93		
12															
13															
14	Sp 91-to-			90°03' 42" }		90°03'39"									
15	Sp 99+495	11,048. ⁵⁷		269°56' 24" }				5.5							
16				Azimuth 243°24'09"							156. ⁵³	⊙	99+495	162.3	
17	Sp 99+495			89°57' 40" }		89°57'42"									
18	-to-Sp 91	11,048. ⁵⁷		270°02' 16" }				5.5							
19															
20															

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STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 14
 LINE No.(s) KD-97 PARTY No. 1182 DATE 4 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		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair..	INST.		
1											156. ⁵³		99+495	
2	N	0						5.7				Δ		
3	E	7095		90°11' 47"	C			14.3			124		94	
4	"	5775		90°13' 59"	C			14.3			124		95	
5	"	4455		90°17' 32"	C			14.3			125		96	
6	"	3135		90°24' 55"	C			14.3			125		97	
7	"	1815		90°45' 04"	C			14.3			125		98	
8	E	495		91°12' 13"	C			24.8			127		99	
9	N	0						5.7			156. ⁵		99+495 (Pin)	
10	W	825		90°40' 39"	C			14.3			138		100	
11	"	2145		89°59' 13"	C			14.3			148		101	
12	"	3465		90°12' 09"	C			20.8			129		102	
13	"	4785		90°12' 59"	C			14.3			130		103	
14	"	6105		90°09' 30"	C			14.3			131		104	
15	"	7425		90°08' 28"	C			14.3			130		105	
16	"	8745		90°02' 26"	C			14.3			142		106	
17														
18	Sp 99+495			90°06' 17" } 90°06' 22"										
19	to - Sp 107	10,058. ⁷⁶		269°53' 33" }				5.5						
20				Azimuth 243°19'59"							136. ¹²		107	

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STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 15
 LINE No.(s) KD-97 PARTY No. 1182 DATE 4 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		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1											136.12	⊙	107	141.9
2	Sp 107-to-			89°52' 21" }		89° 52' 25"								
3	Sp 99+495	10,058.96		270°07' 31" }										
4														
5	A	0										Δ		
6	W	1320	-			C					136		108	
7	"	2640	-			C					132		109	
8	"	3960		89°44' 33"		C					145		110	
9	"	5280		89°50' 30"		C					142		111	
10	"	6600		89°53' 16"		C					131		112	
11	"	7920		89°54' 54"		C					131		113	
12	"	9240		89°51' 46"		C					150		114	
13														
14	Sp 107-to-			89°54' 04" }		89° 53' 52"								
15	Sp 115	10,553.07		270°06' 19" }										
16				Azimuth 249°50'30"							151.85	⊙	115	Pipe
17	Sp 115			90°04' 05" }		90° 04' 07"								157.6
18	To-Sp107	10,553.67		269°55' 50" }										
19														
20														

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STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, Alaska PAGE No. 16
 LINE No.(s) KD-97 PARTY No. 1182 DATE 4 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR 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.		
1											151.85	115		
2	T	0						5.7						
3	W	1155		90°07'24"	C			14.3			141		Tail Group # 4	
4	"	2475		90°22'26"	C			14.3			127		" 8	
5	"	3795		90°06'32"	C			14.3			136		" 12	
6	"	5115		90°04'34"	C			14.3			136		" 16	
7	"	6435		90°00'32"	C			14.3			142		" 20	
8	W	7755		90°01'36"	C			14.3			140		" 24	
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														

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STADIA SURVEY NOTES

AREA Ikpiukuk - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 1
 LINE No.(s) KD-97 Ext. PARTY No. 1182 DATE 2 Day 5 Mo. 77 Yr. BOOK No.
 SURVEYOR K.P. 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		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	A Edla			90°45'29"		90°45'26"										
5	Int.	7291.98		269°14'36"					5.5							185.2
6			A2.	42°50'12"								185.13	⊙	INT.		\$225+920-L-97
7	Int. to															\$474161-L-95
8	A Edla	7291.98		89°15'45"		89°15'59"			5.5							Pipe marker
9				270°43'48"												
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 ALASKA PAGE No. 2

LINE No.(s) KD-97 EXT PARTY No. 1182 DATE 02 Day 05 Mo. 77 Yr. BOOK No.

SURVEYOR K.R. ALLEN RODMAN J. VAN ALLEN WEATHER: overcast, whitout, snow, +04° 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.	ROD		
1												185.13		225+820 = INT.	
2														MARCEC PIPE	
3	∇	0							5.5					Δ	
4	W	820		90-13-57		10			14.3			173		225	
5	"	2140		90-25-50		C			14.3			160		224	
6	"	3460		90-16-16		C			14.3			160		223	
7	"	4780		90-08-21		C			14.3			165		222	
8	"	6100		90-09-20		C			14.3			160		221	
9	"	7420		90-08-29		C			14.3			158		220	
10	"	8740		90-03-15		C			20.7			156		219	
11	"	10060		90-04-12		C			14.3			164		218	
12	"	11380		89-57-25		C			14.3			185		217	
13	"	12700		89-51-48		C			14.3			207		216	
14	"	14020		89-51-42		C			14.3			210		215	
15	"	15340		89-51-02		C			14.3			216		214	
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) KD-97 EXT. PARTY No. 1182 DATE 02 Day 05 Mo. 77 Yr. BOOK No. _____
 SURVEYOR KEN R. ALLEN 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		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													185.15		225+820	
2																
3				89-52-10			89°52'22"									
4				270-07-26					5.5							
5			Az.	294°47'09"									226.65	⊙	5P214+825	7.0 226
6				90-07-50			90°10'02"									Lat. 70°01'28"
7				269-49-54					5.5							
8																
9	E	495		89°06'49"			C		5.0			224.0		Δ	D	NON-RECIP.
10	"	"		270°52'48"			C		5.0						R	
11	X	0							5.5				218		213	
12	W	1320		90-25-14			C		14.3				200		212	
13	"	2640		90-55-39			C		14.3				167		211	
14	"	3960		90-44-13			C		14.3				159		210	
15	"	5280		90-31-26			C		14.3				161		209	
16	"	5445		90-14-21			C		14.3				187		209+165	
17	"	6765		89-57-24			C		14.3				215		208	
18	"	8085		89-58-16			C		14.3				214		207	
19	"	9405		89-57-25			C		14.3				217		206	
20																

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) KD-97 EXT. PARTY No. 1182 DATE 02 Day 05 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.R. ALLEN 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												224.0		218.500	
2	W	10725		89-57-00		C							219	205	
3	"	12045		89-52-14		C							237	204	
4	X	0											218.5	213	⊙
5	SP213 to			89-52-20			89°52'24"								
6	SP204+825	12699.02		270-07-32										5.5	
7			Az.	283°59'54"									250.76	204+825	125000
8	SP204+825 to			90-09-50			90°09'52"								Lat. 70°02'00"
9	SP213	12699.02		269-50-07										5.5	
10															
11	X	0	-										256.3		△
12	W	495	-				C						251.6	203	
13	"	1815	-				C						243.9	202	
14				70 14 53											
15	"	2308.91	D	90-14-53										5.5	
16	"	2308.91	E	269-44-56										5.3	
17													241.0	202+495	241.8
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 5
 LINE No.(s) KD 97 EXT. PARTY No. 1182 DATE 2 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.R. ALLEN 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		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													241.0		202+495	
2	E	824.0		88-39-18		C			5.3			227.0		Δ	D	
3	"	"		271-20-32		C			5.3						R	
4	T	0	-						5.5				221		201	PIPE MARKER common to Sp 1-6-97
5																
6	SP201 to			90-29-05					13.0							
7	SP42-97	3957.50		269-30-42					13.0				180.7	⊙		INTERSECTION
8																Line # 97-Sp 4
9																Line # 96-Sp 3+
10																REFER to page #1 of
11																Line # 97 for elev.
12																181.3 181.6
13																180.7
14																TIE -0.6
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

NPR #4
 AREA IKPIKDUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 6
 LINE No.(s) 97 EXT. PARTY No. 1182 DATE 03 Day 05 Mo. 77 Yr. BOOK No.
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALLEN WEATHER: overcast, whiteout, light breeze, +05° P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2	W	1005		90-27-05	C			5.5							
3	"	1005		269-32-37	C			5.5		198.6		Δ	R		
4	"	825		89-46-48	C			14.3			187				
5	N	0						5.5			193.1			226+825	
6	EAST	495		90-14-26	C			14.3			182			227	
7	"	1815		90-21-58	C			14.3			173			228	
8	"	3/35		90-30-19	C			14.3			157			229	
9	"	4455		90-04-22	C			14.3			179			230	
10	"	5775		90-03-35	C			14.3			178			231	
11	"	7095		89-52-57	C			14.3			199			232	
12	N	0									193.1	⊙		226+825	
13	SP 226+825 TO			89-40-33			89°40'49"								
14	SP 32+630 TO 220.36			270-19-06				5.5							
15			Az.	115°39'40"							237.40	⊙		232+630 238.3	
16	SP 32+630 TO			90-20-06			90°20'16"								Aug Lat. 49°55'43"
17	SP 226+825 TO 220.36			269-39-34				5.5							
18															
19	N	0						5.5				Δ			
20	EAST	690		89-09-45	C			14.3			239			233	

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STADIA SURVEY NOTES

NPR #4
 AREA IK. PIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 7
 LINE No.(s) 97 EXT. PARTY No. 1182 DATE 03 Day 05 Mo. 77 Yr. BOOK No.
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: SAME P.T.S. No.

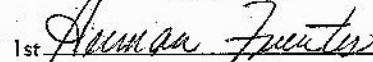
LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												237.40		232+630	
2	EAST	2010		90-09-35		C			14.3			223		234	
3	"	3330		90-02-10		C			14.3			227		235	
4	"	4650		89-55-09		C			14.3			235		236	
5	"	5970		89-48-40		C			14.3			248		237	
6															
7	SP232+630 to			89-53-10			89°53'18"								
8	SP237+825 to 6792.80			270-06-34					5.5						
9			Ar.	115°38'30"								251.59	⊙	237+825	253.3
10	SP237+825 to			90-07-32			90°07'40"								Avg. Lat. 69°55'43"
11	SP232+630 to 6792.80			269-52-12					5.5						
12	▲	0							5.5				△		
13	EAST	495		89-32-21		C			14.3			247		238	
14	"	1815		91-01-56		C			26.6			198		239	
15	"	3135		90-48-02		C			27.3			186		240	
16	"	4455		90-16-31		C			14.3			221		241	
17	"	5775		90-19-30		C			14.3			210		242	
18	"	7095		90-22-24		C			26.0			185		243	
19	"	8415		90-19-40		C			26.3			183		244	
20	"	9735		90-11-03		C			14.3			211		245	

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STADIA SURVEY NOTES

AREA 1KPKPK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 8
 LINE No.(s) 97 EXT. PARTY No. 1182 DATE 03 Day 05 Mo. 27 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIERODMAN 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												251.59		237+825	
2	EAST	11055		90-11-03		C			240.7			227		246	
3	"														
4	SP 237+825 TO			90-03-46			90°03'53"								
5	SP 253	20,285.94		269-56-00					5.5						240.9
6			12	115°37'39"								237.03	⊙	253	Ang Lat. 69°55'43"
7	SP 253 TO			89-58-46			89°58'57"								
8	SP 237+825	20,285.94		270-01-03					5.5						
9															
10	A	0	-						5.5				Δ		
11	West	7920		269-36-33		C			14.3			174		247	
12	"	6600		90-24-10		C			14.3			182		248	
13	"	5280		90-27-24		C			26.2			174		249	
14	"	3960		see										250	
15	"	2640		below										251	
16	"	1320	-	90-00-00		C			12.2			230	⊙	252	
17	A	0	-						5.5				Δ		
18	West	2640		91-27-14					14.3			154		250	
19	"	1608		91-45-07		C			24.8			162		250 + 1032	INTERSECTION
20	"	1320		91-30-11		C			25.7			176		251	SP 237+825 (PIPE)

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Kenneth R. Allen

CHECKED BY 1st

Harman Fuentis 2nd

STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 9
 LINE No.(s) KD-9764 PARTY No. 1182 DATE 3 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WHITE RODMAN T. VANALEN 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												257.03		253	
2															
3	Sp 253 to			88°51'10"			88°51'15"								
4	A Kathy	1244.96		271°08'40"					5.5						
5			Az.	176°42'50"								262.03	⊙	A	KATHY 266.0
6	A Kathy			91°09'11"			91°09'19"		5.5						ELEV. 266.0
7	to Sp 253	1244.96		268°50'34"											262.03
8															Tie -3.97
9						Take off A Tr.		Sta. Kathy				266.0			
10	A Kathy			91°09'11"			91°09'19"								
11	to Sp 253	1244.96		268°50'34"					5.5						
12			Az.	336°42'30"								241.0	⊙	253	241.0
13	Sp 253 to			88°51'10"			88°51'15"								
14	A Kathy	1244.96		271°08'40"					5.5						
15															
16	Sp 253 to			88°32'12"			88°32'11"								
17	Sp 253 + 825	824.60		271°27'30"					5.5						
18			Az.	115°08'08"								262.12	⊙	253 + 825	262.1
19	Sp 253 + 825			91°28'09"			91°28'14"								Avg Lat 49°56'47"
20	Sp 253	824.60		268°31'42"					5.5						

TI-588B

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CHECKED BY 1st Harman Hunter 2nd _____

STADIA SURVEY NOTES

NPR #4

AREA 1K PIRPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 10
 LINE No.(s) 97 EXT. PARTY No. 1182 DATE 03 Day 05 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIERODMAN T. VANALEN WEATHER: JAME 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	KATHY TO			90-12-36			90°12'43"										KATHY
3	SP 253+825			269-47-11													
4																	⊙ 253+825
5	SP 253+825 TO			89-49-16			89°49'21"										Avg. Lat. 69°56'47"
6	KATHY			270-10-29													
7													262.12				253+825-Page #9
8	TR O -																
9	EAST 495												266				254
10	" 1815			see below													255
11																	
12	SP 253+825 TO			90-25-36			90°25'42"										
13	SP 260 8410.93			269-34-12													
14				Az. 115°07'27"													
15	SP 260			89-35-40			89°35'48"										
16	SP 253+825 8410.93			270-24-04													
17																	
18	TR O -																
19	WEST 6765			89-44-07													
20	" 6600			90-02-20													
													224				254+1155 TOP CLIFF
													188				255

TI-568B

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Kenneth R. Reed

CHECKED BY 1st

Arman Fuentes

2nd

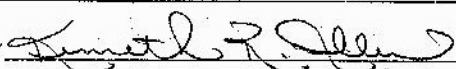
STADIA SURVEY NOTES

NPE#4
 AREA IKPIRPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 11
 LINE No.(s) 97 EXT. PARTY No. 1182 DATE 03 Day 05 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: SAME P.T.S. No. _____

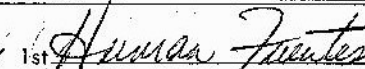
LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												201.07		260		
2	West	5280		90-13-36		C			14.3			171		256		
3	"	3960		90-18-44		C			14.3			171		257		
4	"	2640		90-27-33		C			14.3			171		258		
5	"	1320		90-54-48		C			14.3			171		259		
6	EAST	1320		See below		C			14.3					261		
7																
8	SP 260 TO			89-30-45					89°30'53"							
9	SP 260 + 1155	1154.99		270-29-00					5.5							
10			Az.	114°38'25"								210.90	⊙	260 + 1155	210.6	
11	SP 260 + 1155 TO			90-29-14					90°29'25"							Avg. Lat. 69°56'49"
12	SP 260	1154.99		269-30-24					5.5							
13																
14	T	0	-						5.5							△
15	EAST	165	-				C		7.1			209		261		
16	"	1485		91-01-32		C			14.3			176		262		
17	"	2805		90-33-30		C			14.3			175		263		
18	"	4125		90-28-24		C			14.3			168		264		
19	"	5445		90-21-36		C			14.3			168		265		
20	"															

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2nd

STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 12
 LINE No.(s) 97 EXT. PARTY No. 1182 DATE 03 Day 04 Mo. 77 Yr. BOOK No.
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALÉN WEATHER: SAME, LITTLE WARMER P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction				INST.	ROD			
1												218.90		2.60	+11.55	
2	SP 260+1155 TO			90-19-24		90	19'30"									
3	SP 265+165 5607.29			269-40-25				5.5								
4			Az.	114°36'59"								179.51	⊙	2.65	+165 179.0	
5	SP 265+165 TO			89-40-54		89	41'01"								Avg. Lat. 69°56'47"	
6	SP 260+1155 5607.29			270-18-52				5.5								
7																
8	⌵	0	-					5.5						△		
9	EAST	1155	-					12.2				173		2.66		
10	"	2475		90-20-48				25.8				144		2.67		
11	"	3795		89-51-07				14.3				181		2.68		
12	"	5115		89-13-45				14.3				240		2.69		
13	"	6435		89-17-04				26.0				239		2.70		
14	"	7755		89-12-56				14.3				277		2.71		
15																
16	SP 265+165 TO			89-13-06		89	13'16"									
17	SP 271+660 8410.93			270-46-35				5.5								
18			Az.	114°38'49"								295.24	⊙	2.71	+660 294.5	
19	SP 271+660 TO			90-47-47		90	47'52"								Avg. Lat. 69°56'47"	
20	SP 265+165 8410.93			269-12-04				5.5								

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WORKED BY

Kenneth R. Allen

CHECKED BY 1st

Herman Fuentes

2nd

STADIA SURVEY NOTES

AREA NPR #4 IKPIK POK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 13
 LINE No.(s) 97 EXT. PARTY No. 1182 DATE 03 Day 05 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: SAME w/ light 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	Correction	Center Hair			INST.	ROD		
												295.24		271+660	
1	Δ	0	-						5.5					271+660	
2	EAST	660		91-37-14		C			14.3			268		272	
3	"	1980		91-44-19		C			14.3			226		273	
4	"	3300		91-48-45		C			27.0			169		274	
5	"	4620		91-05-41		C			14.3			198		275	
6	"	5940		90-43-55		C			14.3			211		276	
7	"	7260		90-45-20		C			26.2			179		277	
8	"	8580		90-43-55		C			26.8			164		278	
9	"	9900		90-33-17		C			14.3			191		279	
10	"	11220		90-16-35		C			14.3			232		280	
11															
12	S P 271+660 to			90-15-37			90°15'41"								
13	S P 280+825 12,039.17			269-44-15				5.5							
14			Az.	114°45'22"								243.00	⊙	280+825	241.9
15	S P 280+825 to			89-45-49			89°45'53"								Ang. Lat. 69°56'47"
16	S P 271+660 12,039.17			270-14-03				5.5							
17															
18	Δ	0	-						5.5					Δ	
19	EAST	495		90-08-04		C			14.3			233		281	
20															

11-588B

WORKED BY Frank W. Wittie

CHECKED BY 1st Harman Finster 2nd _____

STADIA SURVEY NOTES

AREA Ikpikpak - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 14
 LINE No.(s) KD-97 Ext. PARTY No. 1182 DATE 4 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR K.R. Allen RODMAN T. VAN ALLEN WEATHER: Snowing P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF S. S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1												243.00			280+825	
2																
3	E	1815		90°37' 29"	C			14.3				214			282	
4	"	3135		90°24' 05"	C			14.3				212			283	
5	"	4455		90°01' 32"	C			14.3				232			284	
6	"	5775		89°59' 50"	C			14.3				235			285	
7	"	6930		90°00' 44"	C			14.3				233			TAIL GROUP # 4	
8	"	8250		89°59' 14"	C			27.6				223			# 8	
9	"	10890		90°03' 13"	C			29.0				209			# 16	
10	"	12210		90°02' 17"	C			28.5				212			# 20	
11	"	15530		90°02' 48"	C			14.3				223			# 24	
12	Sp 280+825			89°45' 52"			89°46' 00"									
13	Sp 271+660	12039.17		270°13' 52"				5.5								
14			As.	294°45' 22"								295.48	⊙		271+660	294.0
15	Sp 271+660-70			90°15' 51"			90°15' 56"									
16	Sp 280+825	12039.17		289°45' 59"				5.5								
17	K	0						5.5				301.0		Δ		
18		410	D	88°36' 54"	C			5.4								304.0
19		410	R	271°23' 01"	C			5.4				305.5	⊙		TAI STA Amy ELEV 304.0	
20																305.5

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Kenneth R. Allen

CHECKED BY 1st

Herman Fuentes 2nd

TIE +1.5