

STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK-KEYCREEK STATE or PROVINCE ALASKA PAGE No. 1
 LINE No.(s) 10B PARTY No. 1182 DATE 13 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIERODMAN, TIM VAN ALLEN WEATHER: CLEAR, SUNNY, +05° P.T.S. No. _____
9:30 A.M.

2ND

1ST

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Δ B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															102.9
2	\backslash	0	-												BAD HEAT WAVES
3	SOUTH	SP 1 to		89-07-02		89-04-06"									
4	SP 1 +	1155		270-52-51											BEST OF THREE RECIPIENTS
5		Azimuth		356°48'05"							84.76	①	1	Lat. 70° 11.31"	
6	SP 1 +	1155 to		90-53-46		90°53'48"									
7	SP 1	1154.50		269-06-11											
8											103.18				
9	\backslash	0	-												
10	SOUTH	165	-			C					102		2		
11	"	1485		89-48-56		C					99		3		
12	"	2805		89-54-29		C					99		4		
13	"	4125		90-03-07		C					91		5		
14	"	5445		90-02-21		C					91		6		
15	"	6765		90-02-07		C					90		7		
16	"	8085		89-56-03		C					104		8		
17	"	9405		89-56-13		C					105		9		
18	"	10725		89-58-46		C					88		10		
19	"	12045		89-57-38		C					103		11		
20	"	13365		89-57-41		C					103		12		

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2nd _____

STADIA SURVEY NOTES

AREA Tkikpak - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 1-A
 LINE No.(s) KD-108 PARTY No. 1182 DATE 15 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR H.R. Richards RODMAN D. HELANDER 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																
4	A Kreis -to-			90°09' 29"		90°09'25"										
5	Spl+1155	12,730.54		269°50' 39"								103.18	⊙	1+1155-2-108		
6		Azimuth		248°01' 12"												LAT. 70°12'01"
7	Spl+1155			89°53' 42"		89°53'51"										102.9
8	to-A Kreis	12,730.50		270°06' 00"												
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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Herman Fuentes

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2nd

STADIA SURVEY NOTES

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 2
 LINE No.(s) 108 PARTY No. 1182 DATE 13 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN TIM VANALAN WEATHER: CLEAR, SUNNY, light breeze P.T.S. No. _____
+10° @ NOON.

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											103.18	17+1155		
2	T	0	-					5.5				Δ 17+1155		
3	South	14685		89-56-31	C			20.7			103	13		
4	"	16005		89-56-21	C			24.4			101	14		
5	"	17325		89-54-47	C			24.3			111	15		
6	"	18645		89-56-38	C			24.5			102	16		
7	"	21965		89-57-32	C			24.2			100	17		
8														
9	SP 1+1155 to			89-56-55										
10	SP 17+165			270-02-22				5.5						
11		20,117.73		Azimuth 176°49'41"							128.30	⊙ 17+165	Lat. 70°08'02"	
12	SP 17+165 to			90-05-40									127.6	
13	SP 1+1155			269-53-59				5.5						
14														
15	T	0	-					5.5				Δ 17+165		
16	SOUTH	1155	-		C			11.8			122	18		
17	"	2475		90-07-58	C			14.3			114	19		
18	"	3795		90-04-48	C			14.3			114	20		
19	"	5115		90-02-29	C			14.3			116	21		
20														

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STADIA SURVEY NOTES

NPR # 4

AREA IKPIKPUK- KEY CREEK STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) 109 PARTY No. 1182 DATE 13 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN TIM VANALEN WEATHER: CLEAR, SUNNY, breezy 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											128.30		17+165	
2	∇	0	-										17+165	
3	SP 17+165 TO			90-01-15		90	01	11"						
4	SP 22	6431.14		269-58-53					5.5					
5				Azimuth 176°52'08"							127.47	⊙	22	126.6
6	SP 22 TO			90-00-19		90	00	18"						
7	SP 17+165			269-59-43					5.5					
8														
9	∇	0	-										22	
10														
11	SP 22 TO			90-09-50		90	09	45"						
12	SP 23	1649.0		269-50-20					5.5					122.2
13				Azimuth 176°52'27"							123.13	⊙	23	Lat. 70°06'43"
14	SP 23 TO			89-51-40		89	51	46"						Long SPREAD
15	SP 22	1649.0		270-08-10					5.5					22-23
16														
17	∇	0	-										23	
18	SOUTH	1320		89-56-40		C			14.3		116		24	
19	"	2640		89-55-20		C			14.3		118		25	
20	"	3960		89-58-03		C			14.3		117		26	

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2nd _____

STADIA SURVEY NOTES

AREA IRPIRPUK-KEY CREEK STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 108 PARTY No. 1182 DATE 13 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN TIM VANALEN WEATHER: CLEAR, SUNNY, BREEZY 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												123.13		23	
2	π	0	-											23	
3	SOUTH	5280	-	see		C								24	
4	"	6660		previous		C								25	
5	"	7920		PAGE		C								26	
6	"	5280		89-58-40		C						116		27	
7	"	6660		89-58-30		C						117		28	
8	"	7920		89-58-30		C						118		29	
9	"	9240		89-55-38		C						126		30	
10															
11	SP 23	to		89-57-18			89 57 18								
12	SP 31	10553.67		270-02-41											
13		Azimuth		187°27'45"								133.62	○	31	Lat. 70°05'00"
14	SP 31	to		90-04-10			90 04 08								132.5
15	SP 23	10553.67		269-55-54											
16															
17	π	0	-											31	
18	SOUTH	1320		89-41-55		C						132		32	
19		2640		90-05-50		C						120		33	
20		3960		90-06-36		C						117		34	

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STADIA SURVEY NOTES

AREA NPR #4 IRPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 5
 LINE No.(s) 108 PARTY No. 1182 DATE 13 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR Frank W. WITTIERODMAN Tim VanAlen WEATHER: clear, sunny, temp. zero P.T.S. No. _____
② 4 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		
1												133.62			
2	\nearrow	0	-											31	
3	SOUTH	5280		90-02-49	C							120		35	
4	"	6600		90-04-16	C							117		36	
5	"	7920		90-04-23	C							115		37	
6	"	9240		90-03-28	C							116		38	
7	"	10560		90-00-14	C							124		39	
8	"	11880		89-57-03	C							135		40	
9															
10	SP 31	To		89-59-49											
11	SP 41	13,192 ⁰⁸		269-59-56										5.5	
12		Azimuth		180°00'28"								135.31	⊙	41	Lat. 70°02'52"
13	SP 41	To		90-00-45								133.85			Refer to page 1-A
14	SP 31	13,192 ⁰⁸		269-59-08								+ 1.46	TIE		LINE - 5 133.85
15															
16	\nearrow	0	-											41	LINE INT =
17	SOUTH	1320		90-03-44	C							124		42	SP 41 + 100 - 108
18	"	2640		90-03-01	C							123		43	SA 391825-93
19	"	3960		90-01-11	C							124		44	Pipe
20	"	5280		90-01-21	C							123		45	

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STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 6
 LINE No.(s) 108 PARTY No. 1182 DATE 13 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN TIM VAN ALLEN WEATHER: clear, sunny & zero P.T.S. No. _____
degrees @ 6 P.M.

LINE	Bearing of Sight	Stadio Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												133.85		41	
2	<u>π</u>	<u>0</u>	<u>-</u>										<u>Δ</u>		
3	<u>South</u>	<u>6600</u>		<u>90-00-40</u>		<u>C</u>						<u>124</u>		<u>46</u>	
4	"	<u>7920</u>		<u>89-55-40</u>		<u>C</u>						<u>135</u>		<u>47</u>	
5	"	<u>9240</u>		<u>89-55-35</u>		<u>C</u>						<u>137</u>		<u>48</u>	
6	"	<u>10560</u>		<u>89-54-15</u>		<u>C</u>						<u>143</u>		<u>49</u>	
7															
8	<u>S.P. 41 to</u>			<u>89-53-07</u>		<u>89°53'04"</u>									
9	<u>SP 50</u>	<u>11,872.87</u>		<u>270-06-59</u>											
10		<u>Azimuth</u>		<u>183°37'13"</u>								<u>156.41</u>	<u>⊙</u>	<u>50</u>	<u>Lat. 70°00'56"</u>
11	<u>SP 50 to</u>			<u>90-06-14</u>		<u>90°06'08"</u>									<u>156.8</u>
12	<u>SP 41</u>	<u>11,872.87</u>		<u>269-53-57</u>											
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. 1
 LINE No.(s) 108 PARTY No. 1182 DATE 14 Day 04 Mo. 77 Yr. BOOK No.
 SURVEYOR FRANK W. WITTIERODMAN TIM VANALEN WEATHER: CLEAR, ~~Clear~~ COLD (-30°) # P.T.S. No.
SUNNY, LIGHT BREEZE

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD		
1												156.41	50		
2	\nearrow	0	-					5.5					50	Δ	
3	SOUTH	1320		90-14-15	C			14.3				142	51		
4	"	2640		90-10-55	C			14.3				139	52		
5	"	3960		90-12-02	C			14.3				134	53		
6	"	5280		90-01-49	C			14.3				145	54		
7	"	6600		90-03-16	C			14.3				141	55		
8	"	7920		90-01-59	C			14.3				143	56		
9	"	9240		89-54-50	C			14.3				161	57		
10	"	10560		89-50-18	C			14.3				177	58		
11															
12	SP 50	TO		89-43-59			89°43'50"								
13	SP 59	11872.87		270-16-18	C			5.5							
14		Azimuth		196°08'14"								214.40	59	Lat. 69°59'05"	
15	SP 59	TO		90-17-25			90°17'25"							215.2	
16	SP 50	11872.87		269-42-36	C			5.5							
17															
18	\nearrow	0	-					5.5					59	Δ	
19	SOUTH	1320		90-38-26	C			24.2				181	60		
20	"	2640		90-38-24	C			14.3				176	61		

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STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK-KEY CREEK STATE or PROVINCE ALASKA PAGE No. 8

LINE No.(s) 108 PARTY No. 1182 DATE 14 Day 04 Mo. 77 Yr. BOOK No. _____

SURVEYOR FRANK W. WITTIERODMAN TIM VANALEN WEATHER: CLEAR, SUNNY, -30°, light breeze 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											214.42		59	
2	π	0	-									Δ		
3	SOUTH	3960		90-14-20	C						189		62	
4	"	5280		SEE	C								63	
5	"	6600		FOLLOWING	C								64	
6	"	7920		PAGE	C								65	
7	"	9240		FOR	C								66	
8	"	10560		THESE	C						182		67	
9	"	11830			C						160		68	
10	"	13200		SHOTS	C						160		69	
11	"	14520		90-08-46	C						158		70	
12	"	15840		90-09-56	C						160		71	
13	"	17160		90-08-52	C						161		72	
14	"	18480		90-08-09	C						166		73	
15	"	19800		90-07-20	C						163	168	74	
16	"	21120		90-04-46	C						176 ?	182	75	
17		Azimuth		196°03'19"										
18	SP 59	70		90-01-52		90°01'58"								
19	SP 75	4825		269-57-57	C								5.5	
20		21931.54									210.89	⊙	75+825 212.5	

Lat. 69°55'40"

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2nd _____

NPR #4

STADIA SURVEY NOTES

AREA IKPIKPIK-KEY CREEK STATE or PROVINCE ALASKA PAGE No. 9
 LINE No.(s) 108 PARTY No. 1182 DATE 14 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN TIM VANALEN WEATHER: Clear, Sunny, light breeze P.T.S. No. _____
-25°

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	SP 75+825 T ₀			90-01-00		90°00'52"							210.89			75+825	
3	SP 59	2,931.84		269-52.15		C											
4																	
5	π	0	-														
6	NORTH	8745		90-17-02		C							160			75+825	
7	"	10065		90-14-55		C							160			69	
8	"	11385		90-06-28		C							182			68	
9	"	12705		SEE		C										67	
10	"	14025		FOLLOWING		C										66	
11	"	15345				C										65	
12	"	110665		PAGE		C										64	
13																63	
14	SP 75+825 T ₀			90-07-50		90°07'41"											
15	SP 66+1155			269-52-20		C											
16		Azimuth		196°03'19"										187.52		66+1155	
17	SP 66+1155 ₀			89-53-49		89°53'46"											189.5
18	SP 75+825			270-06-17		C											
19		11545.0															
20																	

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2nd _____

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STADIA SURVEY NOTES

AREA 1KPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 10
 LINE No.(s) 108 PARTY No. 1182 DATE 14 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIERODMAN TIM VA. ALLEN WEATHER: CLEAR, Sunny, Calm P.T.S. No. _____
-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	Correc-tion			Center Hair	INST.		
1											187.52	66+1155		
2	\nearrow	0	-					5.5				Δ 66+1155		
3	NORTH	1155		90-57-51	C			14.3			159	66		
4	"	2475		90-25-09	C			14.3			161	65		
5	"	3795		90-22-53	C			14.3			153	64		
6	"	5115		90-13-11	C			14.3			159	\odot 63		
7											210.89	75+825		
8	\nearrow	0	-					5.5				Δ 75+825		
9	SOUTH	495		91-05-08	C			14.3			193	76		
10	"	1815		90-34-06	C			14.3			184	77		
11	"	3135		90-24-37	C			14.3			180	78		
12	"	4455		90-17-41	C			14.3			179	79		
13	"	5775		90-14-03	C			14.3			179	80		
14	"	7095		90-11-21	C			14.3			179	81		
15	"	8415		90-06-23	C			14.3			187	82		
16	"	9735		90-04-45	C			14.3			190	83		
17	"	11055		90-01-53	C			14.3			198	84		
18	"	12375		89-53-55	C			14.3			208	85		
19	"	13695		SEE FOLLOW- ING PAGE	C			14.3			194	86		
20	"	15015			C			14.3			195	87		

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2nd

STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 11
 LINE No.(s) 108 PARTY No. 1182 DATE 14 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIERODMAN TIM VANALEN WEATHER: CLEAR, SUNNY, Calm P.T.S. No. _____
-2.0°

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	π	0	-	see									Δ 75+825	
3	SOUTH	16335											83	
4	"	17655		Below									89	
5														
6	SP 75 + 825 to			89-57-14				89°57'08"						
7	SP 90	18963 ⁶²		270-02-58										
8		Azimuth		196°03'28"							231.39	\odot	90	Lat. 69°52'42
9	SP 90 to			90-04-29				90°04'34"						234.2
10	SP 75 + 825			269-55-22										
11		18963 ⁶²												
12	π	0	-										Δ 90	
13	NORTH	1320		90-46-39									89	
14	"	2640		90-37-02									88	
15	"	3960		90-24-58									87	
16	"	5280		90-18-13									86	
17														
18	π	0	-										Δ 90	
19	SOUTH	1320		91-50-18									91	
20	"	2640		90-40-51									92	

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STADIA SURVEY NOTES

NPR#4

AREA IKPIK PUK-KEY CREEK STATE or PROVINCE ALASKA PAGE No. 12
 LINE No.(s) 108 PARTY No. _____ DATE 14 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTE RODMAN TIM VANALEN WEATHER: Clear, sunny, light breeze P.T.S. No. _____
-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													231.39	90	
2	\nwarrow	0	-											90	\triangle
3	SOUTH	3960		90-27-17	C								191	93	
4	"	5280		90-20-42	C								191	94	
5	"	6600		90-17-57	C								188	95	
6	"	7920		90-11-22	C								196	96	
7	"	9240		90-05-32	C								208	97	
8	"	10560		89-58-05	C								228	98	
9															
10	SP 90 TO			89-58-53			89°58'57"								
11	SP 98 + 825			270-01-00	C										
12		Azimuth		197°32'37"									232.96	98 + 825	236.0
13	SP 98 + 825 TO			89-59-47			89°59'54"								Lat. 69°50'56"
14	SP 90	11,378.17		269-59-59	C										
15															BEGIN HERE BN 04-15-77
16	\nwarrow	0	-											98 + 825	\triangle
17	SOUTH	495		89-12-35	C								231	99	
18	"	1815		89-55-38	C								226	100	
19	"	3135		89-54-01	C								230	101	
20	"	4455		90-00-21	C								224	102	

TI-588B

WORKED BY Herman Fuentes

CHECKED BY 1st _____ 2nd _____

STADIA SURVEY NOTES

NPR #4

AREA IKPIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 13
 LINE No.(s) 108 PARTY No. 1182 DATE 15 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VAALAN WEATHER: 1947 breeze 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.			
1											232.96		98+825		
2	π	0	-					5.5				Δ	98+825		
3	SOUTH	5775		89-54-07		C		14.3			234		103		
4															
5	SP	98+825 to		89-59-44											
6	SP	103+495		270-00-07		C		5.5							
7		6270°	Az.								234.31	\odot	103+495		
8	SP	103+495 to		90-01-22											
9	SP	98+825		269-58-45		C		5.5							
10		6270°													
11	π	0	-					5.5				Δ			
12	SOUTH	825		90-06-36		C		14.3			224		104	PIPE	
13	"	1980		90-12-35		C		14.3			218		P.F. #4		
14	"	3300		90-08-41		C		14.3			217		P.F. #8		
15	"	4620		90-12-01		C		14.3			209		P.F. #12		
16	"	5940		90-03-36		C		14.3			219		P.F. #16		
17	"	7260		89-45-27		C		14.3			256		P.F. #20		
18	"	8580		89-40-11		C		14.3			275		P.F. #24		
19															
20															

TI-568B

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CHECKED BY 1st _____ 2nd _____

STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 14

LINE No.(s) 108 PARTY No. 1182 DATE 15 Day 04 Mo. 77 Yr. BOOK No. _____

SURVEYOR FRANK W. WITTIE RODMAN TIM VAN ALSEN WEATHER: high scattered clouds, -25° 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												231.39		90	
2	π	0	-											90	
3															
4	SP 90 TO			89-45-10											
5	TRI-STA DUMALIK			270-14-34											
6				129 19 42								28	⊙		280.89
7	TRI-STA DUMALIK TO			90-16-28		90° 16' 26"									
8	SP 90			269-43-35											
9	π	0	-											98+825	
10	SP 98+825 TO			89-43-41		89° 48' 45"									Lat. 69° 50' 56"
11	TRI-STA DUMALIK			270-11-12											
12	Azimuth			70° 48' 06"								278.75	⊙		TRI-STA. Dumalik
13	TRI-STA DUMALIK TO			90-12-53		90° 13' 00"									ELEV. 282 282.0
14	SP 98+825			269-46-52											278.75
15		1298270												Tie	-3.25
16															
17															
18															
19															
20															

TI-588B

WORKED BY Humana Fuentes

CHECKED BY 1st _____ 2nd _____