

STADIA SURVEY NOTES

AREA Umiat - Prince Creek STATE or PROVINCE ALASKA - Pat. 4 PAGE No. 1
 LINE No.(s) 68-E PARTY No. 1184 DATE 19th Day JAN Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN _____ WEATHER: Cloudy, Cold & SNOW 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			Take off Auto-Survey monument #														
2																	
3																	
4													313.1	⊙	TP-1		
5	-	0	-							+5.7	+5.7	318.8		Δ			
6	NE	880	-							-6.1	-6.1		312.7		600		
7	-	0	-							-5.7	-5.7		313.1		601		
8	SW	880	-							-2.9	-2.9		315.9		602		
9	"	1460	-							-5.6	-5.6		312.2		603	313.2	
10	"	2640	-							-13.1	-13.1		305.7		604		
11	"	3520		89° 50'						-9.8	+0.4		319.2		605		
12	"	4440		89° 50'						-9.4	+3.5 +3.8		322.6	⊙	606	324.6	
13	"	4440		270° 10'						-8.9	+4.0				check		
14	NE	880		89° 32' 09"						+15.0	+7.9 +8.0	330.6		A			
15	"	880		270° 26' 59"						+15.0	+8.1				check		
16	-	0	-							-5.8	-5.8		324.8		607		
17	NW	350		88° 37' 53"						-14.0	-5.6 -5.7		324.9	⊙	Tie to TBM #	6802 2908	
18	"	350		271° 20' 59"						-14.0	-5.8				check		
19													327.5		elev.		
20													-2.6		ver. Mistie		

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STADIA SURVEY NOTES

AREA Umiat - Prince Creek STATE or PROVINCE ALASKA PAGE No. 2
 LINE No.(s) 68-E PARTY No. 1184 DATE 21st Day JAN Mo. 1976 Yr. BOOK No. _____
 SURVEYOR J. Moking RODMAN G. Myers WEATHER: Clear & cold 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				Take off			Auto-survey								
2															
3															
4															
5															
6											327.5	0			
7	W	350		88-38-53			C	+14.0	+5.6	+5.7	333.2	Δ			
8	W	350		27-20-59			C	+14.0	+5.8				check		
9	SW	880		89-45-48			C	-14.0		-10.4	328.8	-	608		
10	"	1760		89-50-45				-14.0	-9.3	-9.7	323.5	0	689	323.4	
11	"	1760		27-09-42				-14.0	-10.1				check		
12	E	3530		90-08-54				+14.0	+23.1	+23.7	347.2	Δ			
13	"	3520		867-49-52				-14.0	+24.4				CHK		
14	"	2640		90-19-59				-14.0	-	-29.3	317.9	-	610		
15	"	1760		90-12-31				-14.0		-20.9	326.8	-	611		
16	"	880		90-16-30				-14.0		-18.2	329.0	-	612		
17		0						-5.2		-5.2	342.0	-	613	T	
18	W	880		88-38-42				-14.0		+6.8	359.0	-	614		
19	"	990		88-20-26				-14.0		+14.7	361.9	-	614-1	FIN ELAG	
20	"	1210		87-52-10				-14.0		+31.0	378.2	-	614-2		

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STADIA SURVEY NOTES

AREA UMIAT - PRINCE CREEK STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) 68 PARTY No. 1184 DATE 21 Day 1 Mo. 77 Yr. BOOK No. _____
 SURVEYOR J. MCKAY RODMAN: _____ WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	SEAMAN 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												347.2				
2																
3	W	1430		87-37-12					-14.0	+45.3		392.5	-	614-3	PIN FLAG	
4	"	1650		87-27-33					-14.0	+59.1		406.3	-	614-4		
5	"	1760		87-30-00					-12.1	+64.6		411.8	-	615		
6	"	1870		87-30-00					-13.4	+68.1		415.3	-	615-1	PIN FLAG	
7	"	2090		87-30-00					-14.5	+76.6		423.8	-	615-2	"	
8	"	2310		87-30-00					-13.3	+82.4		434.6	-	615-3	"	
9	"	2530		87-30-00					-10.3	+100.0		447.2	-	615-4	"	
10	"	2750		87-30-00					-5.8	+114.0	+113.9	461.1	⊙	616	460.6	
11	"	2750		272-40-00					-14.0	+113.8		-	⊙	check		
12	E	770		93° 20 - 00					+12.7	+57.4	+57.5	518.6	△			
13	"	770		266-40-11					+13.0	+57.7			△	check		
14	"	660		93-10-00					-11.4	-47.8		470.8		616.1	PIN FLAG	
15	"	440		92-10-00					+12.5	-29.1		489.5		616.2	"	
16	"	220	✓						+14.3	-14.3		504.3		616.3	"	
17		00	✓						-4.8	-4.8		513.9		616.4		
18	W	110	✓						-2.3	-2.3		516.3		617		
19	"	238	✓						-4.4	-4.4		514.2	⊙	TP-2 = 51-617 + 128'		
20	"	238		270-22-42					-6.0	-4.4			⊙	check	513.6	

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STADIA SURVEY NOTES

AREA UMIAT - PRINCE CREEK STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 68 PARTY No. 1194 DATE 21 Day 1 Mo. 77 Yr. BOOK No. _____
 SURVEYOR J. MCKAY RODMAN MYERS 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	Correc-tion			Center Hair	INST.			
1												514.2			
2	E	650		88° 40'		C		+8.5	-6.6	-6.5	507.7		A		
3	"	650		271° 10'		C		+6.8	-6.4					check	
4	"	440		88° 46'		C		-4.9		+5.3		513.0		617-2	
5	"	220		88° 40'		C		-3.3		+1.8		509.5		617-3	
6	-	0	-			C		-5.0		-5.0		502.7		617-4	
7	UP	110	-			C		-11.6		-11.6		496.1		618	
8	"	220		90° 30'		C		-14.4		-16.3		491.4		618-1	
9	"	440		92° 30'		C		-11.7		-22.0		480.7		618-2	
10	"	660		92° 00'		C		-11.1		-34.1		473.6		618-3	
11	"	880		92° 00'		C		-14.4		-45.1		462.6		618-4	
12	"	990		92° 10'		C		-13.0		-50.4		457.3		619	
13	v	1100		92° 20'		C		-13.1		-57.2		449.9		619-1	
14	"	1320		92° 46'		C		-12.4		-73.7		434.0		619-2	
15	"	1540		92° 30'		C		-9.2		-76.3		431.4		619-3	
16	"	1760		92° 20'		C		-9.6		-81.2		426.5		619-4	
17	"	1870		92° 20'		C		-4.1	-80.2	-80.8		426.9	D	620 426.1	
18	"	1870		267° 50'		S		-10.7	-81.3					check	
19	E	2640	-			T	110.4	-13.2	-2.8	-2.8	-2.4	424.5	A		
20	"	2640		870° 10'				+5.7	-2.0					check	

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STADIA SURVEY NOTES

AREA UMIAT - PRINCE CREEK STATE or PROVINCE ALASKA PAGE No. 5
 LINE No.(s) 68 PARTY No. 1184 DATE 22 Day 1 Mo. 77 Yr. BOOK No.
 SURVEYOR MCKAY RODMAN 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												424.5			
2															
3	E	1760				B	-12.6	-8.8					403.1	-	621
4	"	880		70°50'									398.5	-	622
5	"	0						HI					419.4		623 X
6	W	880		89°20'									422.1	-	624
7	"	1760		89°13'41"									434.7	-	625
8	"	1870		89°13'41"									437.7	-	625-1 PIN FLAG
9	"	2090		89°10'									444.2	-	625-2
10	"	2310		89°10'									452.1	-	625-3
11	"	2530		89°00'									461.7	-	625-4
12	"	2640		89°00'									467.9	⊙	626 466.8
13	"	2640		271°10'											CHK
14	E	990		73°00'									533.9	Δ	
15	"	990		266°50'											CHK
16	"	440		93°10'									495.8	-	626+3 PIN FLAG
17	"	220		94°10'									503.1	-	626-4
18	"	110		91°30'									517.3	-	627
19		0						HI					528.8		627-1 X
20															

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STADIA SURVEY NOTES

AREA UMIAT - PRINCE CREEK STATE or PROVINCE ALASKA PAGE No. 6
 LINE No.(s) 68 PARTY No. 1184 DATE 23rd Day JAY Mo. 1977 Yr. BOOK No. _____
 SURVEYOR MCKAY RODMAN Lex WEATHER: Cold & Windy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												533.9				
2																
3	W	440		89° 30'		C			-11.8	-8.0	-8.0		525.9	⊙	627-2	524.7
4	"	440		270° 40'		C			-13.2	-8.1					CHK	
5	E	1760		91° 45' 40"		C			+10.0	+64.1	+64.0	590.2		▲		
6	"	1760		268° 03' 30"		C			+5.0	+64.6					check	
7	"	1540		92° 35'		C			-10.0		-79.3	510.9			627-2	
8	"	1430		93° 15' 20"		C			-10.0		-91.8	499.1			628	
9	"	1320		94° 10' 40"		C			-10.0		-102.1	488.1			628-1	
10	"	1100		94° 51' 50"		C			-10.0		-115.8	474.4			628-2	12.9 boost
11	"	550		94° 52' 11"		C			-11.0		-64.6	525.6			628-2 629	7.1 Boost
12	"	440		94° 46' 40"		C			-10.0		-46.5	543.7			629-1	⊕
13	"	220		92° 25' 25"		C			-10.0		-19.3	570.9			629-2	
14	-	0	-			C			-5.5		-5.5	584.7			629.3	
15	W	220		89-32-00		C			-3.0		+2.6	592.8			629.4	
16	"	330		88-01-10		C			-5.0		+6.4	596.6			630	
17	"	880		88-28-16		C			-10.5	+13.0	+12.8	603.0		⊙	630-3	TR 3 601.6
18	"	880		271-31-30		C			-12.0	+12.7					check	
19																
20																

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STADIA SURVEY NOTES

AREA urniat STATE or PROVINCE Pet. 4 - ALASKA PAGE No. 7
 LINE No.(s) 68-E PARTY No. 1184 DATE 23rd Day JAN. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. Mckay RODMAN Lex WEATHER: cloudy, cold & windy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													603.0			
2	—	0	—						+5.5	+5.5	608.5			A		
3	T-meter → 5	3469.6		90° 30'					-6.5	-26.8	-37.0			⊙	Tie to TBM # 6803	
4	"	3469.6		269° 35'					-12.0	-37.2			571.5	check		569.8
5													569.9	elev.		
6													+1.6	ver. mistie		
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
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STADIA SURVEY NOTES

AREA UMIAT STATE or PROVINCE Pet 4 - ALASKA PAGE No. 8
 LINE No.(s) 68-E PARTY No. 1184 DATE 24th Day JAN Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Clear, cold & windy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3																
4																
5																
6													569.6	⊙	TBM # 6803	
T-meter 7	→ S	3496.7		90° 10'		C			+14.0	+21.3	+21.8	591.4		⊙		
8	"	3496.7		269° 30' 24"		C			+12.5	+22.3					check	
9	-	0	-			C			-5.7		-5.7		585.7		sp-631	
10	W	880	-			C			-3.0		-3.0		588.4		632	
11	"	990		89° 40'		C			-4.0	+1.8	+1.6		593.0	⊙	632-1	✓
12	"	990		270° 30'		C			-7.1	+1.5					check	
13	E	1540 1540		89° 40'		C			+9.1	+0.1	+0.7	593.7		⊙		
14	"	1540 1540		270° 30'		C			+14.6	+1.2					check	
15	"	880		89° 40'		C			-5.3		-0.2		593.5		633	
16	-	0	-			C			-5.8		-5.8		587.9		634	
17	W	880	-			C			-3.5		-3.5		590.2		635	
18	"	1760		89° 50'		C			-6.8		-1.7		592.0		636	
19																
20																

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STADIA SURVEY NOTES

AREA Umist STATE or PROVINCE Pet. 4 - ALASKA PAGE No. 9
 LINE No.(s) 68-E PARTY No. 1184 DATE 24th Day JAN Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Clear & cold 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												593.7				
2	W	2640		89° 40'		C			-10.2	+5.2		598.9		637		
3	"	3520		89° 44' 44"		C			-10.0	+5.6		599.3		638		
4	"	4400		89° 46'		C			-10.0	+7.9		601.6		639		✓
5	"	4950		89° 37' 56"		C			-10.0	+21.8 +20.7		614.4	⊙	TP-4		SP-639 + 550'
6	"	4950		270° 24' 05"		C			-15.0	+19.7				check		
7	E	1320		89° 50'		C			+2.3	-1.5 -1.3	613.1		A			
8	"	1320		270° 20'		C			+4.6	-1.1				check		
9	"	990	-			C			-5.9	-5.9		607.2		640		
10	"	110	-			C			-6.1	-6.1		607.0		641		
11	W	770		91° 10'		C			-3.6	-19.3		593.8		642		
12	"	1650		90° 30'		C			-5.9	-20.3		592.8		643		
13	"	2530		90° 18' 14"		C			-5.0	-18.5 -18.9		594.2	⊙	644		✓
14	"	2530		269° 49' 19"		C			-10.0	-19.3				check		
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA Umizat STATE or PROVINCE Pet. 4 - ALASKA PAGE No. 10
 LINE No.(s) 68-E PARTY No. 1184 DATE 24th Day JAN Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Clear 3/ Cold 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. O.F.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													594.2			
2	E	2530		89°39'44"		C		+5.0	-9.9	-9.5	584.7			A		
3	"	2530		27°25'49"		C		+10.0	-9.0						check	
4	"	1650		89°45'		C		-13.5		-6.3			578.4		645	
5	"	770		89°45'		C		-5.3		-1.9			582.8		646	
6	W	110	-			C		-13.0		-13.0			571.7		647	
7	"	270		92°40'		C		-14.2		-24.4			560.3		647-1	
8	"	440		93°06'		C		-12.8		-35.8			548.9		647-2	
9	"	660	-			C		-14.1		-14.1			570.6		647-3	
10	"	890		89°40'		C		-4.8		+0.3			585.0		647.4	
11	"	990		89°30'		C		-3.7		+4.9			589.6		648	
12	"	1100		89°30'		C		-2.0	+7.4	+7.4			592.1	O	648-1	✓
13	"	1100		27°40'		C		-5.5	+7.3						check	
14	E	770	-			C		+9.1	+9.1	+9.2	401.3			A		
15	"	770	-	249°50'		C		+7.2	+9.4						check	
16	-	0	-			C		-5.8		-5.8			595.5		649	
17	W	880		70°20'		C		-14.4		-19.5			581.8		650	
18	"	1430		91°48'29"		C		-12.0	-32.2	-32.5			568.8	O	650-3	✓
19	"	1430		269°14'51"		C		-14.0	-32.8						check	
20																

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STADIA SURVEY NOTES

AREA Umiat STATE or PROVINCE Part 4 - ALASKA PAGE No. 11
 LINE No.(s) 48-E PARTY No. 1184 DATE 25th Day JAN. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Cold, windy & 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													568.8			
2	E	1210		91 05 03		C			+10.0	+32.9	+33.0	601.8		A		
3	"	1210		268 59 10		C			+10.0	+33.2					check	
4	"	990		91-45-11		C			-14.7		-45.0		556.8		650-4	
5	"	880		92-00		C			-14.1		-44.8		557.0		651	
6	-	0	-			C			-5.7		-5.7		596.1		652	
7	W	880		89 20		C			-6.3		+3.9		605.7		653	
8	"	1420		89 37 34		C			-5.0	+4.3	+4.1		605.9	⊙	653-3	✓
9	"	"		270 33 54		C			-10.0	+4.0					check	
10	E	1540		90 15 34		C			+5.0	+12.0	+12.2	618.1		A		
11	"	1540		269 54 42		C			+10.0	+12.4					check	
12	"	1210		90 20		C			-12.5		-19.5		598.6		654	
13	"	330		90 20		C			-4.3		-6.2		611.9		655	
14	-	0	-			C			-5.8		-5.8		612.3		655-3	
15	W	550		91-00		C			-5.2		-14.8		603.3		656	
16	"	1430		90-02-19		C			-5.0	-6.0	-6.1		612.0	⊙	657	✓
17	"	1430		270-09-10		C			-10.0	-6.2					check	
18																
19																
20																

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STADIA SURVEY NOTES

AREA UMIAT STATE or PROVINCE Fet. 4 - ALASKA PAGE No. 12
 LINE No.(s) 68-E PARTY No. 1184 DATE 25th Day JAN. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McManis RODMAN LEX WEATHER: Cold, Windy & 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													612.0			
2	E	770		91 26 30		C			+5.0	+26.6	+26.6	638.6		A		
3	"	770		268 45 36		C			+10.0	+26.6					check	
4	W	110		90 30		C			-5.6		-6.6		632.0		658	
5																
6	N	600		89-58-45		C			-5.0	-4.8	-4.8		633.8	0		Tie to TBM #6305
7	"	600		270-30-35		C			-10.0	-4.7					check	
8													633.9	Elev.		
9													-0.1	ver. mistie		
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA UMIAT STATE or PROVINCE Part 9 - ALASKA PAGE No. 13
 LINE No.(s) 68-E PARTY No. 1184 DATE 26th Day JAN Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex 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. I.F.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1				Take off		TBM	#	6805								
2																
3																
4																
5																
6												633.9	⊙			
7	N	600		89-58-45		C		+5.0					Δ			
8	"	600		270-30-35		U	⊙	+10.0						check		
9																
10	-	0	-			C		-5.8							TP-5 = sp-657+4	
11																
12																
13												633.9	⊙			
14	N	1180	✓					5.1		+5.1	639.0		Δ			
15	"	1180		89° 31' 30"				10.0					Δ			
16		0						HI 5.5		-5.5	633.5			TP#5	π	657+4
17	W	110						6.2		-6.2	632.8		-	658		
18	"	990						10.2		-10.2	628.8		-	659		
19		1870		70° 16' 10"				14.0					⊙	657	330	
20								14.0					⊙			

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STADIA SURVEY NOTES

AREA UMIAT - PRINCE CREEK STATE or PROVINCE ALASKA PAGE No. 14
 LINE No.(s) 68 PARTY No. 1182 DATE 27 Day 1 Mo. 77 Yr. BOOK No. _____
 SURVEYOR HELANDER RODMAN COMIN 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																
2																
3	W	1100	✓						8.7	-8.7	-8.7		630.3	⊙	659+110	
4	"	1100		89°55'50"					10.0	-8.7				⊙		
5	E	2530		89°36'50"					5.0	-12.0	-11.6	618.7		Δ		
6	"	2530		270°22'00"					5.0	-11.2				Δ		
7	"	1760	✓						9.3		-9.3		609.4	-	660	
8	"	880	✓						6.5		-6.5		412.2	-	661	
9		0						H1	5.5		-5.5		613.2	-	662	π
10	W	880		90°25'25"					10.0		-16.5		602.2	-	663	
11	"	1760		90°20'35"					10.0		-20.5		598.2	-	664	
12	E	2640		90°25'50"					10.0	-29.8	-30.3		588.4	⊙	665	
13	"	2640		269°33'00"					10.0	-30.7				⊙		
14	E		✓						6.2	+6.2	+6.2	594.6		Δ		
15	"	1100		90°03'30"					5.0	+6.1				Δ		
16	"	220	✓						14.4		-14.4		580.2	-	666	
17		0							-5.8		-5.8		588.8			
18	W	660		91°57'30"					10.0	-32.5	-32.7		561.9	⊙	667	✓ 561.0
19	"	660		263°01'11"					10.0	-32.8				⊙		
20																

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE _____ PAGE No. 15
 LINE No.(s) _____ PARTY No. _____ DATE _____ Day _____ Mo. _____ Yr. BOOK No. _____
 SURVEYOR _____ RODMAN _____ 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. ⊙P.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													561.9			
2															667	
3	E	700		87°47'50"				10.0	-16.9	-16.7	545.2		Δ			
4	"	700		272°10'40"				10.0	-16.5				Δ			
5		0						5.5		-5.5			539.7			⊘
6	W	180		104°10'30"				4.0		-49.1			499.1	-	668	
7	"	1070		91°52'45"				10.0	-45.1	-45.3			499.9	⊙	669	
8	"	1070		268°05'55"				10.0	-45.5				499.1	⊙		
9	E	2640		89°59'00"				14.0	+13.2	+13.4	513.3		Δ			
10	"	2640		269°59'30"				14.0	+13.6				Δ			
11	"	1760		89°54'30"				14.0		-12.2			501.1	-	670	
12	"	880	✓					7.0		-7.0			504.3	-	671	
13		0					HI	5.4		-5.4			507.9	-	672	⊘
14	W	880		89°19'10"				14.0		-3.5			509.8	-	673	
15	"	1760		89°33'00"				14.0		-0.2			513.1	-	674	
16	"	2640		89°39'00"				14.0	+2.1	+1.6			514.9	⊙	675	✓ 513.4 515.3
17	"	2640		270°19'35"				14.0	+1.0				⊙			
18																
19																
20																

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STADIA SURVEY NOTES

AREA UMIAT STATE or PROVINCE Pet. 4 - ALASKA PAGE No. 16
 LINE No.(s) 68-E PARTY No. 1184 DATE 28th Day JAN Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McMay RODMAN Lex WEATHER: Clear & cold P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. ⊙F.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3																
4												514.9	⊙	675		
5	E	1760		90° 10' 30"		C		+8.0	+13.4	+14.0	528.9		▲			
6	"	1760		269 51-10		C		+10.0	+14.5						check	
7	"	880	-			C		-13.0		-13.0		515.9			676	
8	-	0	-			C		-5.8		-5.8		523.1			677	
9	W	880		89° 30'		C		-8.0		-0.3		528.6			678	
10	"	1760		89° 30'		C		-8.0		+7.4		536.3			679	
11	"	2440		89 15-42		C		-0.5	+23.5	+23.0		551.9	⊙		680	
12	"	2440		276 47 29		C		-14.0	+22.5						check	552.1
13	E	1760		91 08 52		C		+5.0	+40.3	+40.7	592.6		▲			
14	"	1760		268 59 18		C		+10.0	+41.1						check	
15		880		91° 00'		C		-12.4		-22.8		564.8			681	
16	-	0	-			C		-5.8		-5.8		586.8			682	
17	W	880	-			C		-3.3		-7.3		589.3			683	
18	"	1760		59° 20'		C		-4.0		+16.5		596.1			684	✓
19												609.1				
20																

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STADIA SURVEY NOTES

AREA Umiat STATE or PROVINCE Pet 4 - ALASKA PAGE No. 17
 LINE No.(s) 68-E PARTY No. 1184 DATE 28th Day JAN Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lox WEATHER: Clear & cold 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. ⊕ F.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												592.4				
2	W	2640		89-11-40		C		-10.0	+27.1	+26.6			619.2	⊙	485	616.9 619.3
3	"	2640		70-52-03		C		-14.0	+24.0						check	
4	E	1740		90-17-10		C		+5.0	+13.8	+14.3		633.5		Δ		
5	"	1760		269-50-34		C		+10.0	+14.8						check	
6	"	880	-			C		-10.3		-10.3			623.2		686	
7	-	0	-			C		-5.8		-5.8			627.7		687 TP-9	
8	W	550	-			C		-6.8	-6.8	-6.9			626.6	⊙	687 - 3	626.8
9	"	550		270-18-29		C		-10.0	-7.0						check	
10	E	2090		89-26-57		C		+5.0	-15.1	-14.6		612.0		Δ		
11	"	2090		270-39-41		C		+10.0	-14.1						check	
12	"	1760	-			C		-5.7		-5.7			606.3		688	
13	"	880	-			C		-9.1		-9.1			602.9		689	
14	-	0	-			C		-5.8		-5.8			606.2		690	
15	W	880	-			C		-4.6		-4.6			607.4		691	
16	"	1760		89-40-36		C		-5.0	+4.9	+4.6			616.4	⊙	692	613.7 616.8
17	"	1760		270-27-52		C		-10.0	+4.3						check	
18																
19																
20																

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STADIA SURVEY NOTES

AREA Umiat STATE or PROVINCE Pat 4 - ALASKA PAGE No. 18
 LINE No.(s) 68-E PARTY No. 1184 DATE 28th Day JAN Mo. 1927 Yr. BOOK No. _____
 SURVEYOR J. Madley RODMAN Lex WEATHER: Clear & cold 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											616.6				
2	E	2640		90-02-00		C		+5.0	+6.6	+7.2	623.8	A			
3	"	2640		270-02-49		C		+10.0	+7.8				check		
4	"	1760	-			C		-9.1		-9.1	614.7		493		
5	"	880	-			C		-5.7		-5.7	618.1		694		
6	-	0	-			C		-5.8		-5.8	618.0		695		
7	W	880		89-40		C		-5.3		-0.2	623.6		696		
8	"	1760		89-40		C		-12.3		-2.5	621.3		697		
9	"	2640		89-50-24		C		-8.0	-0.6	-1.3	622.5	⊙	498	622.7	
10	"	2640		270-10-32		C		-10.0	-1.9				check		
11	E	1760		90-04-02		C		+5.0	+7.5	+7.8	630.3	A			
12	"	1760		270-03-34		C		+10.0	+8.2				check		
13	"	880	-			C		-6.7		-6.7	623.6		698		
14	-	0	-			C		-5.8		-5.8	624.5		700		
15	W	880	-			C		-5.2		-5.2	625.1		701		
16	"	1760	-			C		-1.7		-1.7	628.6		702		
17	"	2640		89-53-14		C		-5.0	+0.2	-0.4	629.9	⊙	703	626.1 630.0	
18	"	2640		270-11-37		C		-10.0	-1.1				check		
19															
20															

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STADIA SURVEY NOTES

AREA Umiaf STATE or PROVINCE Pet. 4 - ALASKA PAGE No. 19
 LINE No.(s) 68-E PARTY No. 1184 DATE 28th Day JAN. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Clear & cold P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												629.9			
2	E	2640		90-45-52		C			+5.0	+40.2	+40.5	670.4		A	
3	"	2640		269-19-53		C			+10.0	+40.8					check
4	"	1760		90-52-52		C			-10.0	-37.4	-37.1	623.3			704
5	"	880		91-00-16		C	Boost 6.5		-14.0		-35.9	624.5			705
6	—	0	—			C			-5.8		-5.8	664.6			706
7	W	880		90-02-16		C			-5.0		-5.6	664.8			707
8	"	1760		90-03-10		C			-5.0	-6.6	-6.9	663.5	⊙		708 663.6
9	"	1760		270-05-21		C			-10.0	-7.3				▲	check
10	E	2640		89-59-53		C			+5.0	+4.9	+5.2	668.7		A	
11	"	2640		270-05-50		C			+10.0	+5.5					check
12	"	1760	—			C			-8.3		-8.3	660.4			709
13	"	880	—			C			-6.8		-6.8	661.9			710
14	—	0	—			C			-5.8		-5.8	662.9			710-4 (went back to sp 710 &
15	W	880		89-20		C			-5.0		+4.6	673.3			711 } changed from
16	"	1760		89-50		C			-2.4		+33.4	702.1			711 711-4 } 870' sprest
17	"	2640		89-20		C			-6.7		+70.1	738.8			712 } to 1760' sprest
18	"	3520		88-20-08		C			-5.0	+97.2	+96.8	745.5	⊙		712 712-5
19	"	3520		271-43-58		C			-10.0	+96.4					check 760.7 765.6
20															

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STADIA SURVEY NOTES

AREA UMIAT STATE or PROVINCE Pet. 4 - ALASKA PAGE No. 20
 LINE No.(s) 68-E PARTY No. 1184 DATE 29th Day JAN Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: clear & cold P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2	E	880		90-42-42				5.0	+15.9	+14.1	786.6	765.5		Δ	
3	"	880		269-35-44				10.0	+16.2					Check	
4	-	0	-	90-50				5.8		-5.8		775.8		775 713 TP-	
5	W	880		90-50				10.7	-23.5	-23.5		758.1		⊙ 777 713-5	
6	E	2640		89-26-01				5.0	-21.1	-20.6	737.5			Δ	
7	"	2640		270-39-07				10.0		-20.0				Check	
8	"	1740		90-37-52				10.0		-29.4		708.1		778 714	
9	"	880		91-58-18				10.0		-40.3		699.2		779 714-5	
10	-	0	-					5.8		-5.8		731.7		722 715	
11	W	880		88-54-30				5.0	+11.8	+11.6		749.1		⊙ 721 715-5 743.8	
12	"	880		271-23-39				10.0	+11.4					check	
13															
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA Umiat STATE or PROVINCE Part 4 - ALASKA PAGE No. 21
 LINE No.(s) 68-E PARTY No. 1184 DATE 30th Day JAN Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McIsay RODMAN Lex WEATHER: _____ 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. ○F.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1																
2																
3												765.9	<u>743.9</u>	0		749.3
4	E	1870		90 18 30				6.0	+16.1	+16.5	760.4		A			
5	"	1870		269 54 30				14.0	+17.0						check	
6	N	990	-					8.0		-8.0		758.7			716	757.9
7	W	770		90 40				4.4		-13.4		749.0			717	752.5
8	"	2530		70 44 17				5.0	-37.6	-38.1		728.3	0		718	727.6
9	"	2530		269 21 02				10.0	-38.7		692.9				check	
10	E	2310		99 00				5.0	-35.3	-34.8	687.5			A		
11	"	2310		271 06				10.0	-34.3						check	
12	"	550	-					4.5		-4.5		685.0			719	688.4
13	W	1210		99 00				11.7		+9.4		696.9			720	702.3
14	"	2970		88 54 15				8.0	+51.8	+51.2		738.7	0		721	744.0
15	"	2970		271 10 15				10.0	+50.7		767.3				check	
16	E	2970		90 09 57				14.0	+22.6	+23.1	767.8			A		
17	"	2970		269 48 54				14.0	+23.6						check	
18	"	1210		270 05 05				10.0		-11.9		749.9			722	759.2
19	W	550		90 50				5.8		-13.8		748.0			723	753.4
20																

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STADIA SURVEY NOTES

AREA IKPAKPAK River STATE or PROVINCE Pet. 4 - ALASKA PAGE No. 22
 LINE No.(s) 68-E PARTY No. 1184 DATE 31st Day JAN Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Clear & cold P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			ROD
1											745.8				
2	W	2310		91 03 39				5.0	-47.8	-47.8	745.0	724	718.3	711.6	
3	"	2310		269 00 42				10.0	-49.8		737.3		check		
4	E	2750		90 14 34				5.0	+18.3	+18.8	737.8				
5	"	2750		269 41 57				5.0	+19.4				check		
6	"	990		90 40				10.4		-21.9		709.9	725	715.4	
7	W	770		88 20				7.6		+14.8		745.6	726	752.1	
8	"	2200		88 31 04				10.0	+46.9	+46.1		727.9	726	783.3	
9	"	2200		27 32 40				14.0	+45.3		785.5		check	783.3	
10	E	890		89 36 05				8.0	+1.9	+2.1	720.0				
11	"	880		270 29 55				10.0	+2.3				check		
12	"	550		89 40				3.9		-0.7		729.3	727	784.8	
13	W	1250		91 10				10.4		-35.8		744.2	728	749.6	
14	"	3010		91 10 08				5.0	-66.4	-67.3		712.7	729	718.0	
15	"	3010		268 63 30				10.0	-68.2		684.1		check		
16	E	1780		89 44 00				5.0	-34.3	-33.9	628.8				
17	"	1280		271 24 00				10.0	-33.5				check		
18	-	0		-				5.8		-5.8			730	778.3	
19	W	1760		90 08 35				5.0	-9.4	-9.8		649.8	731	674.2	666.3
20	"	1760		269 59 25				10.0	-10.3				check		

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STADIA SURVEY NOTES

AREA EKP, KPAK River STATE or PROVINCE Pet. 4 - ALASKA PAGE No. 23
 LINE No. (s) 68-E PARTY No. 1184 DATE 31st Day JAN Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Clear & Cold P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												689.9	689.0		
2	E	1760		96 20 02				5.0	+15.3	+15.7		684.7		A	
3	"	1760		269 48 08				10.0	+16.1					check	
4	—	0	—				C	5.8		-5.8			678.9	732	684.1
5															
6	S	1780		88 20 07				10.0	+39.4	+38.9		723.6		o	TIC to TEAM #6809
7	"	1700		271 41 55				12.0	+39.4			728.8		check	
8												720.6		EBV.	720.6
9												+3.0		ver. mistie	
10												+ 8.2			
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIKPUK River STATE or PROVINCE Pat. 4 - ALASKA PAGE No. 24
 LINE No.(s) 68-E PARTY No. 1184 DATE 1st Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: clear & cold -50 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				<u>Take</u>		<u>off</u>	<u>TBM</u>	<u>#</u>	<u>6809</u>							
2																
3																
4																
5																
6												<u>720.6</u>	<u>⊙</u>	<u>TBM # 6908</u>		
7	<u>SE</u>	<u>1620</u>		<u>89 51 20</u>				<u>5.0</u>	<u>+0.9</u>	<u>+1.4</u>	<u>722.0</u>		<u>A</u>			
8	<u>"</u>	<u>1620</u>		<u>89 19 20</u>				<u>10.0</u>	<u>+1.8</u>					<u>check</u>		
9	<u>W</u>	<u>990</u>		<u>89 34 37</u>				<u>5.0</u>	<u>+2.3</u>	<u>+2.1</u>		<u>724.1</u>	<u>⊙</u>	<u>733</u>		<u>723.8</u>
10	<u>"</u>	<u>990</u>		<u>89 41 10</u>				<u>10.0</u>	<u>+1.9</u>					<u>check</u>		
11	<u>E</u>	<u>1760</u>		<u>90 25 43</u>				<u>5.0</u>	<u>+18.2</u>	<u>+18.7</u>	<u>742.8</u>		<u>A</u>			
12	<u>"</u>	<u>1760</u>		<u>269 41 50</u>				<u>10.0</u>	<u>+19.3</u>					<u>check</u>		
13	<u>-</u>	<u>0</u>	<u>-</u>					<u>5.8</u>		<u>-5.8</u>		<u>737.0</u>		<u>734</u>		
14	<u>W</u>	<u>1760</u>		<u>89 11 39</u>				<u>10.0</u>	<u>+14.8</u>	<u>+14.3</u>		<u>757.1</u>	<u>⊙</u>	<u>735</u>		<u>756.3</u>
15	<u>"</u>	<u>1760</u>		<u>89 54 21</u>				<u>14.0</u>	<u>+13.8</u>					<u>check</u>		
16	<u>E</u>	<u>1760</u>		<u>89 47 52</u>				<u>10.0</u>	<u>+3.8</u>	<u>+4.2</u>	<u>761.3</u>		<u>A</u>			
17	<u>"</u>	<u>1760</u>		<u>89 18 14</u>				<u>14.0</u>	<u>+4.7</u>					<u>check</u>		
18	<u>-</u>	<u>0</u>	<u>-</u>					<u>5.8</u>		<u>-5.8</u>		<u>755.5</u>		<u>736</u>		
19																
20																

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STADIA SURVEY NOTES

AREA IMPIKPOK River STATE or PROVINCE Pet. 4 - ALASKA PAGE No. 25
 LINE No.(s) 68-E PARTY No. 1184 DATE 1st Day Fri. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McHay RODMAN Lex WEATHER: Clear & cold P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												761.3			
2	W	1760		90 04 04				5.0	-7.1	-7.6		753.7	⊙	737	✓ 752.5
3	"	1760		270 11 28				14.0	-8.1					Check	
4	E	1430		89 47 47				5.0	-0.1	+0.4		754.1		A	
5	"	1430		270 21 52				10.0	+0.9					check	
6	W	330		91 38 15				5.0	-14.4	-14.5		739.6	⊙	738	738.1
7	"	330		269 11 54				10.0	-14.6					check	
8	E	1750		90 24 49				5.0	+17.6	+18.0		757.6		A	
9	"	1750		269 43 45				10.0	+18.3					check	
10	—	0						5.8		-5.8		751.8		739	
11	W	990		88 26 48				10.0	+16.8	+16.6		774.2	⊙	739-5	772.4
12	"	990		271 38 50				12.0	+16.5					check	
13	E	2530		91 11 49				5.0	+52.8	+52.5		832.7		A	
14	"	2530		268 53 08				10.0	+59.2					check	
15	"	1760		91 12 24				14.12		-51.7		781.0		740	
16	—	0						5.8		-5.8		826.9		741	
17	W	1760		90 07 42				5.0	-8.9	-9.3		823.4	⊙	742	821.0
18	"	1760		270 00 43				10.0	-9.6					check	
19															
20															

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STADIA SURVEY NOTES

AREA IMPAK POK RIVER STATE or PROVINCE Pat. 4 - ALASKA PAGE No. 26
 LINE No.(s) 68-E PARTY No. 1184 DATE 3rd Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McHale RODMAN LEX WEATHER: Cloudy, cold & windy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											823.4				
2	E	1750		96 35 08				5.0	+22.9	+22.9	846.3	A			
3	"	1750		269 24 28				10.0	+22.9				Check		
4	-	0	-					5.8	-5.8		840.5		743		
5	W	1760		98 07 24				5.0	-39.6	-39.4	804.9	Q	744	804.1	
6	"	1760		269 02 10				10.0	-39.1				Check		
7	E	1760		89 53 30				5.0	-29.0	-28.6	778.3	A			
8	"	1760		271 14 29				10.0	-28.1				Check		
9	-	0	-					5.8	-5.8		772.5		745		
10	S	3386		89 16 30				15.0	+22.8	+27.1	#	Q	Tie to TBM # 6810		
11	"	3386		270 42 02				15.0	+24.4		805.4		Check	801.9	
12											801.9		Elev.		
13											+ 3.5		Ver Mistio		
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIMPUR River STATE or PROVINCE Pat-4 - ALASKA PAGE No. 27
 LINE No.(s) 68-E PARTY No. 1184 DATE 3rd Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McMAHON RODMAN Lex WEATHER: Clwydy, cold & windy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1				<u>TAKE</u>	<u>04F</u>		<u>TOM</u>								
2															
3															
4															
5															
6											<u>801.9</u>	<u>⊙</u>	<u>TOM #6810</u>		
7	<u>S</u>	<u>3384</u>		<u>89 16 30</u>				<u>15.0</u>	<u>-27.8</u>	<u>-27.1</u>	<u>774.8</u>	<u>Δ</u>			
8	<u>"</u>	<u>3384</u>		<u>87 42 02</u>				<u>15.0</u>	<u>-26.4</u>				<u>Check</u>		
9	<u>W</u>	<u>1760</u>		<u>90 51 41</u>				<u>5.0</u>	<u>-31.5</u>	<u>-31.8</u>	<u>743.0</u>	<u>⊙</u>	<u>746</u>		
10	<u>"</u>	<u>1760</u>		<u>209 16 40</u>				<u>10.0</u>	<u>-32.2</u>				<u>check</u>		
11	<u>E</u>	<u>770</u>		<u>88 32 13</u>				<u>5.0</u>	<u>-14.7</u>	<u>-14.5</u>	<u>729.5</u>	<u>Δ</u>			
12	<u>"</u>	<u>770</u>		<u>271 48 25</u>				<u>10.0</u>	<u>-14.3</u>				<u>Check</u>		
13	<u>W</u>	<u>990</u>		<u>91 53 42</u>				<u>10.0</u>		<u>-42.7</u>	<u>685.8</u>		<u>747</u>		
14	<u>"</u>	<u>1980</u>		<u>92 00 27</u>				<u>10.0</u>	<u>-79.4</u>	<u>-79.8</u>	<u>648.7</u>	<u>⊙</u>	<u>747-5</u>		
15	<u>"</u>	<u>1980</u>		<u>268 04 57</u>				<u>14.0</u>	<u>-80.3</u>				<u>check</u>		
16	<u>E</u>	<u>3740</u>		<u>90 11 15</u>				<u>5.0</u>	<u>+19.2</u>	<u>+18.1</u>	<u>666.8</u>	<u>Δ</u>			
17	<u>"</u>	<u>3740</u>		<u>269 51 42</u>				<u>10.0</u>	<u>+19.0</u>				<u>check</u>		
18	<u>"</u>	<u>3520</u>		<u>90 20 10</u>				<u>10.0</u>		<u>-30.6</u>	<u>636.2</u>		<u>747-6</u>		
19															
20															

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McMahon

STADIA SURVEY NOTES

AREA IKPIKPOK River STATE or PROVINCE Pet. 4 - ALASKA PAGE No. 28
 LINE No.(s) 68-E PARTY No. 1184 DATE 3rd Day Feb. Mo. 1972 Yr. BOOK No. _____
 SURVEYOR J. McHAY RODMAN LEX WEATHER: cloudy, cold & windy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1											666.8			
2	E	3300		90 40					-50.2		616.6		747-7	
3	"	3080		91 00					-66.5		600.3		748-8	
4	"	2970		91 20					-78.1		582.7		748	
5	"	2860		91 30					-89.9		576.9		748-1	
6	"	2640		92 10					-112.3		554.5		748-2	
7	"	2420		92 50					-131.4		535.4		748-3	
8	"	2200		93 30					-147.6		519.2		748-4	
9	"	1980		94 20					-162.2		504.6		748-5	
10	"	1760		95 10					-169.4		497.4		748-6	
11	"	1540		96 20					-178.7		488.1		748-7	
12	"	1320		97 40					-189.7		477.1		748-8	
13	"	1210		98 00				+6.5 Boost	-189.0		471.8		749	
14	"	1100		99 00				+6.5 Boost	-174.4		492.4		749-1	
15	"	880		98 00				+6.5 Boost	-143.6		522.4		749-2	523.7
16	"	660		98 10				+6.5 Boost	-114.4		552.4		749-3	
17	"	440		98 00				+6.5 Boost	-81.4		585.4		749-4	
18	"	220		95 50					-36.4		630.4		749-5	
19														
20														

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE Part 4 - ALASKA PAGE No. 29
 LINE No.(s) 68-E PARTY No. 1184 DATE 3rd Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Cloudy, cold & windy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												666.8				
2	—	0	—						5.8	-5.8		661.0		749-6		
3	W	220		87 40					3.2	+1.9		668.7		749-7	TP-15	
4	"	440		89 00					6.3	3.2 +1.4		668.2		749-8		
5	"	550		89 04 22					12.0	-3.1 -3.2		663.6	⊙	750	664.0 #	
6	"	550		271 07 12					14.0	-3.2				CHECK	664.2	
7	E	1760		87 15 41					5.0	-79.1 -78.7	584.9		▲			
8	"	1760		272 52 32					10.0	-78.3		667.5		CHECK		
9	"	1650		87 20					3.2	+73.6		658.5		750-1		
10	"	1430		87 20					4.7	+61.8		646.7		750-2		
11	"	1210		87 40					6.9	+42.4		627.3		750-3		
12	"	990		89 00					1.7	+15.6		620.5		750-4		
13	"	770		89 50					5.2	-3.0		581.9		750-5		
14	"	550		89 50					3.3	-1.7		583.2		750-6		
15	"	330	—						5.0	-5.0		579.9		750-7		
16	"	110	—						-5.4	-5.4		579.5		750-8		
17	—	0	—						-5.8	-5.8		579.1		751		
18																
19																
20																

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STADIA SURVEY NOTES

AREA IMP. K. P. H. River STATE or PROVINCE Part 4 - ALASKA PAGE No. 30
 LINE No. (s) 68-E PARTY No. 1184 DATE 4th Day Feb. Mo. 1927 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Cloudy, cold & windy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											584.9				
2	W	1760		88 53.40				5.0	+29.0	+28.6		613.5	⊙	752 613.9	
3	"	1760		271 14.36				10.0	+28.7					check	
4	E	1210		94 11.36				10.0	+98.5	+98.7	712.2		A		
5	"	1210		263 58.22				14.0	+99.0					check	
6	"	1100		94 10				13.3		-93.2		619.0		752-1	
7	"	880		94 20				14.1		-80.6		631.6		752-2	
8	"	660		94 10				14.0		-62.0		650.2		752-3	
9	"	440		93 30				14.7		-41.6		670.6		752-4	
10	"	220		91 00				14.7		-18.6		693.6		752-5	
11	-	0	-					5.8		-5.8		706.4		752-6	
12	W	550		88 10				5.4		+12.2		724.4		753	
13	"	1740		88 12 54				5.0	+49.8	+49.5		741.7	⊙	753-6 762.1	
14	"	1760		271 55.42				10.0	+49.2					check	
15	E	1540		90 12 33				5.0	+10.6	+10.9	772.6		A		
16	"	1540		269 57 17				10.0	+11.2					check	
17	"	990	-					6.1		-6.1		744.5		754	
18	W	770		90 40				7.2		-16.2		756.4		755	
19	"	1980		90 30 57				5.0	-22.8	-23.2		749.4	⊙	755-6 762.8	
20	"	1980		269 36 27				10.0	-23.6					check	

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STADIA SURVEY NOTES

AREA IGNARPOK River STATE or PROVINCE Feb. 4 - ALASKA PAGE No. 31
 LINE No.(s) 68-E PARTY No. 1184 DATE 4th Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Cloudy, Cold & Windy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												749.4			
2	E	1320		87 52 30				12.0	-36.9	-36.7	712.7		▲		
3	"	1320		272 14 20				14.0	-36.4					check	
4	"	770		81 50				5.1		+24.0		736.7		756	
5	-	0	-					5.8		-5.8		706.9		756-4	
6	N	990		95 00				8.5		-94.8		617.9		757	
7	"	2530		92 57 13				5.0	-118.4	-118.8		593.9	○	758 757-6	594.2
8	"	2530		267 09 05				10.0	-119.3					check	
9	E	3080		89 17 13				5.0	-33.3	-32.7	561.2		▲		
10	E	3080		270 47 00				10.0	-32.1					check	
11	"	2530		89 50				4.3		+1.1		502.3		758	
12	"	770		93 20				14.0		-58.8		502.4		759	
13	-	0	-					-5.8		-5.8		555.4		759-4	
14	W	990		87-40				-4.3		+34.0		596.2		760	
15	"	1320		87 55 45				5.0	+42.7	+42.4		603.6	⊙	760-2	604.1 *
16	"	1320		272 15 58				10.0	+42.2					check	604.6
17															
18															
19															
20															

TI-588B

WORKED BY _____

CHECKED BY 1st _____

17930

2nd _____

STADIA SURVEY NOTES

AREA IKPIKPUK River STATE or PROVINCE Pat. 4 - ALASKA PAGE No. 32
 LINE No.(s) LB-E PARTY No. 1184 DATE 4th Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McHany RODMAN lex WEATHER: cloudy, cold & windy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1											603.6			
2	E	2200		89 23 28				5.0	-18.4	-18.1	585.5	Δ		
3	"	2200		870 43 22				10.0	-17.8				check	
4	"	770		93 30				10.3	-57.0	-57.0	528.5		761	
5	-	0	-					5.8		-5.8	529.7		761-4	
6	W	660		90 21 20				10.0	-14.1	-14.2	571.3	0	761-7 572.0	
7	"	660		269 58 40				14.0	-14.3				check	
8	E	1760		86 33 55				5.0	-100.4	-100.1	471.2	Δ		
9	"	1760		273 34 37				10.0	-99.8				check	
10	"	1430		86 40				5.3		+77.8	549.0		762	
11	-	0	-					5.8		-5.8	465.4		763 762-7	
12	W	330		92 50				14.0		-30.3	440.9	0	763	
13	"	2090		91 55 52				5.0	-75.4	-75.2	392.4	0	764 396.0	
14	"	2090		268 11 03				10.0	-76.2				check	
15	E	1760		92 00 57				5.0	+66.9	+67.2	462.2	Δ		
16	"	1760		268 07 30				10.0	+67.6				check	
17	-	0	-					5.8		-5.8	456.8		765	
18	W	1760		87 00				6.0		+87.1	549.7		766	
19														
20														

TI-588B

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

STADIA SURVEY NOTES

AREA IKPIKPUK River STATE or PROVINCE Pet. 4 - ALASKA PAGE No. 33
 LINE No.(s) 68-E PARTY No. 1184 DATE 6th Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: clear, cold & windy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	W	2310		86 28 13				8.0	+134.2	+133.7		596.3	⊙	766-3	596.9	
3	"	2310		273 32 17				10.0	+133.2					check		
4	E	1100		90 13 56				6.0	+10.5	+10.4	607.0		Δ			
5	"	1100		269 57 15				10.0	+10.9					check		
6	—	0	—					5.8		-5.8		601.2		766-9		
7	W	110	—					10.5		-10.5		596.5		767		
8	W	1760		90 44 17				10.0	-32.1	-33.0		574.0	⊙	767-8	574.5	
9	"	1760		269 22 18				14.0	-33.3					check		
10	E	1870		88 28 48				5.0	-45.0	-44.6	529.4		Δ			
11	"	1870		271 39 53				10.0	-44.3					check		
12	"	1760		88 40				3.4		+37.6		567.0		768		
13	—	0	—					5.8		+5.8		523.6		769		
14	W	330		86 19 56				2.0	+19.1	+19.0		548.4	⊙	769-2	549.0 *	
15	"	330		274 09 47				5.0	+19.0					check	549.8	
16	E	1100		88 44 26				13.0	-11.2	-11.0	537.4		Δ			
17	"	1100		271 17 31				14.0	-10.8					check		
18	—	0	—					5.8		-6.8		531.6		769-7		
19	W	330		91 06				13.7		-19.5		517.9		770		
20	+															

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2nd _____

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STADIA SURVEY NOTES

AREA IKPIMPUK River STATE or PROVINCE Pet. 4 - ALASKA PAGE No. 34
 LINE No.(s) 68-E PARTY No. 1184 DATE 6th Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Clear, cold & Windy 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												537.4				
2	W	1760		89 30 02				5.0	+10.3	+10.1		547.5	⊙	770-7	548.0	
3	"	1760		270 38 39				10.0	+9.8					check		
4	E	2090		89 40 50				5.0	-6.7	-6.3		541.2	A			
5	"	2090		270 26 15				10.0	-6.0					check		
6	"	1760		89 30				8.6		+6.8		548.0		771		
7	-	0	-					5.8		-5.8		535.4		772		
8	W	1760		88 40				6.9		+39.1		575.3		773		
9	"	3290		87 52 26				2.0	+120.1	+119.6		660.8	⊙	773-7	661.2	
10	"	3290		272 09 45				5.0	+119.1					check		
11	E	330		91 25 35				2.0	+16.2	+16.3		677.1	A			
12	"	330		268 54 07				10.0	+16.3					check		
13	-	0	-					5.8		-5.8		676.3		774	TP-17	
14	W	330		71 47 31				5.0	-15.3	-15.4		661.7	⊙	774-2	662.0	
15	"	330		269 02 59				10.0	-15.5					check		
16	E	3190		82 38 53				5.0	-181.5	-181.0		480.7	A			
17	"	3190		273 25 25				10.0	-180.5					check		
18																
19																
20																

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WORKED BY _____ CHECKED BY 1st _____ 2nd

STADIA SURVEY NOTES

AREA IMPIKPOK River STATE or PROVINCE Ret. 4 - ALASKA PAGE No. 35
 LINE No.(s) 68-E PARTY No. 1184 DATE 6th Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Clear, cold & windy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												480.7			542.4
2	E	1760		89 50				5.3		-71.8		408.9		775	marker pipe
3	-	0	-					5.8		-5.8		474.9		774	
4	W	990		89 32 44				5.0	+2.9	+2.7		483.4	⊙		483.9
5	"	990		270 43 39				10.0	+2.6					Check	
6	E	770		90 10 40				5.0	+7.4	+7.5	490.9		A		
7	"	770		270 10 16				10.0	+7.7					check	
8	-	0	-					5.8		-5.8		485.1		777	
9	W	1740		91 29 09				5.0	-50.6	-51.0		439.9	⊙	778	440.4
10	"	1740		268 39 18				10.0	-51.3					check	
11	E	1210		88 51 01				5.0	-19.3	-19.0	420.9		A		
12	"	1210		271 21 49				10.0	-18.8					check	
13	-	0	-					-5.8		-5.8		415.1		778-6	
14	W	550		91 10				14.4		-25.6		395.3		779	
15	"	2300		90 21 28				5.0	-19.4	-19.7		401.2	⊙	780	401.6 ±
16	"	2300		269 44 52				10.0	-20.1					check	402.8
17	E	3410		93 32 51				5.0	+216.0	+216.6	417.8		A		
18	"	3410		266 30 54				10.0	+217.3					check	
19															
20															

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STADIA SURVEY NOTES

AREA IKPAK PUK RIVER STATE or PROVINCE Ret. 4 - ALASKA PAGE No. 36
 LINE No.(s) 68-E PARTY No. 1184 DATE 6th Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McRAY RODMAN Ley WEATHER: clear & cold 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												617.8		✓		
2	E	1650		95 20				10.3		-163.4		454.4			781	
3	-	0	-					5.8		-5.8		612.0			781-8	
4	W	110		89 00				1.3		+0.6		618.4			782	
5	"	440		89 09 01				3.0	+11.2	+11.2		629.00		⊙	782-2	629.6
6	"	440		87 53 31				5.0	+11.2					⊙	check	
7	E	3190		90 28 33				5.0	+31.5	+31.9		660.9		⊙		
8	"	3190		269 35 57				10.0	+32.3						check	
9	"	1430		91 40				5.0		-46.6		614.3			783	
10	W	330		88 00				2.6		+8.9		669.8			784	
11	"	2090		87 25 46				5.0	+88.7	+88.4		749.3		⊙	785	750.0
12	"	2090		272 41 12				10.0	+88.0						check	
13	E	550		90 15 47				14.0	+16.5	+16.6		765.9		⊙		
14	"	550		269 43 07				14.0	+16.7						check	
15	"	220	-					5.6		-5.6		760.3			785-2	77-18
16	-	0	-					5.8		-5.8		760.1			785-3	
17	W	660		91 54 28				10.0	-32.0	-32.1		733.8		⊙	785-6	734.5
18	"	660		268 04 35				10.0	-32.2						check	
19																
20																

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STADIA SURVEY NOTES

AREA IKPIKPOK RIVER STATE or PROVINCE Ret. 4 - ALASKA PAGE No. 37
 LINE No.(s) 68 E PARTY No. 1184 DATE 8th Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. Mahay RODMAN lex WEATHER: Cloudy & SNOW 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													733.8			
2	E	2310		86 52 64				5.0	-120.7	-120.2	613.6			A		
3	"	2310		223 05 48				5.0	-119.8						check	
4	"	1760		87 10				5.7		+81.3			694.9		786	
5	-	0						5.8		-5.8			607.8		787	
6	W	770		89 54 17				5.0	-3.7	-3.9			609.7	0	787-4	610.5
7	"	770		270 04 28				5.0	-4.0						check	
8	E	2750		89 45 44				5.0	-6.4	-5.9	603.8			A		
9	"	2750		270 12 58				5.0	-5.4						check	
10	"	1760		90 40				11.0		-31.5			572.3		788	
11	-	0						5.8		-5.8			598.0		789	
12	W	1210		89 16 20				6.0	+9.4	+9.2			613.0	0	789-6	613.9
13	"	1210		270 42 30				6.0	+9.0						check	
14	E	2310		88 36 49				5.0	-50.9	-50.5	562.5			A		
15	"	2310		271 21 57				5.0	-50.0						check	
16	"	1760		88 30				12.6		+33.5			596.0		790	
17	-	0						5.8		-5.8			556.7		791	
18	W	890		90 32 36				5.0	-14.4	-14.6			547.9	0	791-5	549.0
19	"	890		269 26 44				5.0	-14.8						check	550.6
20																

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STADIA SURVEY NOTES

AREA IKPIKPOK RIVER STATE or PROVINCE Part 4 - ALASKA PAGE No. 38
 LINE No.(s) 68-E PARTY No. 1184 DATE 8th Feb Mo. 1979 Yr. BOOK No. _____
 SURVEYOR J. McHAY RODMAN lex WEATHER: cloudy & snow 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													547.9			
2	E E	2200		88.5/19				5.0	-39.0	-38.9	609.0			A		
3	"	2200		271 69 29				5.0	-38.8						check	
4	"	1430		88 50				4.0		+25.1			534.1		792	
5	W	330		91 00				13.9		-19.7			489.3		793	
6	"	2090		91.21 24				5.0	-60.6	-60.8			448.2	O	794	#49-2
7	"	2090		268 27 39				5.0	-61.1						check	
8	E	1760		89 59 29				10.0	+9.6	+9.8	458.0			A		
9	"	1760		210 00 01				10.0	+10.0						check	
10	-	0	-					5.8		-5.8			452.2		795	
11	W	1760		90 03 51				10.0	-12.0	-12.2			445.8	O	796	#46-2
12	"	1760		269 55 07				10.0	-12.5						check	
13	E	1760		90 25 47				10.0	+23.2	+23.5	469.3			A		
14	"	1760		269 33				10.0	+23.8						check	
15	-	0	-					5.8		-5.8			463.5		797	
16	W	1760		89 13 25				5.0	+18.8	+18.6			487.9	O	798	#88-2
17	"	1760		270 45 29				5.0	+18.3						check	
18																
19																
20																

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STADIA SURVEY NOTES

AREA IKPIKPOK River STATE or PROVINCE Pat. 4 - ALASKA PAGE No. 39
 LINE No.(s) 68-E PARTY No. 1184 DATE 8th Day Feb. Mo. 1907 Yr. BOOK No. _____
 SURVEYOR J. McKay RODMAN Lex WEATHER: Cloudy & snow 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													487.9			
2	E	1740		90 56 22				10.0	+38.9	+39.2	527.1			Δ		
3	"	1740		269 02 25				10.0	+39.5						check	
4	-	0	-					5.8		-5.8			521.3		799	
5	W	1760		86 57 28				5.0		+88.3			615.4		880	
6	"	2750		86 58 45				5.0	+139.9	+139.7			666.5	0	880-5	667.3
7	"	2750		272 59 56				5.0	+138.9						check	
8	E	1100		92 20 09				14.0	+58.8	+59.0	725.5			Δ		
9	"	1100		267 38 40				14.0	+59.2						check	
10	"	330		90 10				14.8		-15.8			709.7		801	
11	-	0	-					5.8		-5.8			719.7		801-2	TP. 19
12	W	1880		91 47 36				10.0	-37.5	-37.7			687.8	0	801-4	688.6
13	"	1880		268 11 05				10.0	-37.9						check	
14	E	1320		89 31 43				5.0	-51.9	-51.7	636.1			Δ		
15	"	1320		272 27 09				5.0	-51.5						check	
16	"	770		88 10				5.4		+19.2			655.3		802	
17	-	0	-					5.8		-5.8			630.3		802-3	
18	W	880		93 28 50				14.0	-54.1	-54.2			581.9	0	802-7	582.8 *
19	"	880		266 29 27				14.0	-54.3						check	584-7
20																

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STADIA SURVEY NOTES

AREA IKPIKPIK RIVER STATE or PROVINCE Part 4 - ALASKA PAGE No. 40
 LINE No.(s) 68-E PARTY No. 1184 DATE 8th Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. McHAY RODMAN Lex WEATHER: Cloudy & 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													581.9		
2	E	2200		90 02 24				5.0	+6.6	+6.9	588.8		A		
3	"	2200		269 56 21				5.0	+7.3					Check	
4	"	1870		91 12				5.5		-43.6			545.2	803-	
5	"	1320		94 20				10.0		-109.7			479.1	803-2	
6	"	110	-					13.8		-13.8			575.0	804	
7	-	0	-					5.8		-5.8			583.0	804-1	
8	W	660		86 49 30				8.0	+28.6	+28.5			617.3	804-4	618.3
9	"	660		273 09 27				8.0	+28.4					check	
10	E	2420		91 09 01				10.0	+58.6	+59.0	676.3		A		
11	"	2420		268 49 53				10.0	+59.4					check	
12	"	1430		93 40				12.5		-104.0			572.3	805	Ten mile MARKER PIPE
13	"	1100		95 00				8.6		-104.5			571.8	805-2	
14	W	0	-					5.8		-5.8			670.5	805-6	
15	W	330		78 00				3.7		+7.9			684.1	806	
16	"	660		88 15 01				8.0	+12.2	+12.0			688.3	806-2	689.4
17	"	660		271 43 44				8.0	+11.9					check	
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKAMPUK RIVER STATE or PROVINCE Pet 4 - ALASKA PAGE No. 41
 LINE No.(s) 68-E PARTY No. 1184 DATE 8th Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. Mahay RODMAN Lex WEATHER: cloudy & 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												688.3			
2	E	1540		88 58 47				8.0	-19.4	-19.2	669.1		Δ		
3	"	1540		271 60 05				8.0	-18.9					check	
4	"	110	-					3.4		-3.4		665.7		807	
5	-	0	-					5.8		-5.8		663.3		807-1	
6	W	1650		92 40				11.8		-88.6		580.5		808	
7	"	2200		92 34 02				14.0	-112.5	-112.8		556.3	⊙	808-3	557.3
8	"	2200		207 25 01				14.0	-113.1					check	
9	E	1530 1530		81 31 26				5.0	-205.8	-205.4	350.9		Δ		
10	"	1530 1530		278 26 48				5.0	-205.1					check	
11	" 770	500 500		84 30				7.5		+46.3		417.2		808-5	
12	-	0	-					-5.8		-5.8		345.1		809	
13	W	1760	-					3.1		-3.1		347.8		810	
14	"	3520		89 16 28				10.0	+34.6	+34.0		384.9	⊙	811	385.7 *
15	"	3520		270 42 24				10.0	+33.4					check	387.9
16	E	3520		91 04 20				5.0	+70.9	+71.7	456.6		Δ		
17	"	3520		269 54 05				5.0	+72.5					check	
18	"	1760		91 30				10.2		-56.3		400.3		812	
19	-	0	-					5.8		-5.8		450.8		813	
20															

TI-588B

WORKED BY _____

CHECKED BY 1st _____

2nd _____

14630

MW

STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE Dist. 4 - ALASKA PAGE No. 42
 LINE No.(s) 68-E PARTY No. 1184 DATE 9th Day Feb. Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. Murray RODMAN Key WEATHER: Clear & cold 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												456.6				
2	W	1760		85 30				7.7		+130.4		587.0		814		
3	"	2090		85 21 43				5.0	+164.0	+162.7		619.3	⊙	814-1	621.0	
4	"	2090		274 36 39				5.0	+161.4					check		
5	E	1430		92 28 02				10.0	+71.6	+71.9		691.2	A			
6	"	1430		267 30 25				10.0	+72.2					check		
7	-	0	-					5.8		-5.8		685.4		815		
8	W	770		84 01 14				5.0	+75.2	+75.1		766.3	⊙	815-4	768.0	*
9	"	770		275 57 21				5.0	+74.9					check		770.3
10	E	880		91 47 37				14.0	+41.5	+41.7		808.0	A			
11	"	880		268 11 04				14.0	+41.9					check		
12	-	0	-					5.8		-5.8		802.2		815-8		
13	W	110	-					4.3		-4.3		803.7		816		
14	"	880		89 39 21				5.0	+0.3	+0.1		808.1	⊙	816	TP-20	809.3
15	"	880		270 18 58				5.0	-0.1					check		
16	N	7851		89 37 37				5.0	-46.1	-44.8		763.3	A			from slope
17	N	7851		270 21 14				5.0	-43.5					check		
18												763.3				760.5
19												763.0		TBM # 6816		763.0
20												763.0		Ver. mistific		-2.5

TI-568B

WORKED BY _____

CHECKED BY 1st 7810

2nd [Signature]

STADIA SURVEY NOTES

AREA IKPIKUR RIVER STATE or PROVINCE ALASKA PAGE No. 43
 LINE No.(s) 6B PARTY No. 1184 DATE 10 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W. D. HELANDER RODMAN L. COMIN 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	Correc-tion			Center Hair	INST.			
1			TAKE OFF TP			20	-	SP 8	6+	770					812.4
2											808.1	0	TP-20 = SP- 816 + 770.0		
3	E	990		89-39-20				5.0	-1.0	-0.7	807.4	Δ			
4	"	990		270-19-00				5.0	-0.5			Δ ₁			
5		0					H1	5.5		-5.5	801.9		817 π		
6	W	1760		91-34-30				10.0		-58.4	749.0	-	818		
7	"	2090		91-32-20				10.0	-66.1	-66.6	740.8	0	818+330 TP 22	4	
8	"	2090		268-26-05				10.0	-67.1			0 ₁		745.0	
9	E	2340		87-21-33				10.0	-97.8	-97.3	643.5	Δ			
10	"	2340		272-36-55				10.0	-96.8			Δ ₁			
11	"	1900		87-27-36				4.0		+80.3	723.8	-	818+770		
12	"	1460		87-57-00				4.0		+48.2	691.7	-	818+1210		
13	"	910		88-28-50				5.0		+19.1	662.6	-	819		
14		0					H1	5.5		-5.5	638.0		819+910 π		
15	W	870		161-05-25				14.0		-181.3	462.2	-	820		
16	"	2640		97-15-10				14.0	-347.3	-347.8	295.7	0	821	299.9 300.5	
17	"	2640		262-43-30				14.0	-348.3			0 ₁			
18	E	2540		88-16-25				5.0	-71.5	-70.9	224.8	Δ			
19	"	2540		271-42-00				5.0	-70.4			Δ ₁			
20	"	770	✓					5.4		-5.4	219.4	-	822		

12.5
2.0
10.5

4.5
2.0
2.5

15.0
1.8
13.2

TI-588B

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

W

STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 74
 LINE No.(s) 68 PARTY No. 1184 DATE 10 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W. D. HELANDER RODMAN L. COMIN 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	Correc-tion	Center Hair			INST.	ROD			
1												224.8				
2																
3		0													822+770	π
4	W	990	✓						5.3	-5.3		219.5	-		823	
5	"	2750		89-57-30					10.0	-8.0	-8.6	216.2	0		824	220.4
6	"	2750		270-01-00					10.0	-9.2			0			
7	E	3043		90-32-00					10.0	+38.3	+39.1	255.3	Δ			
8	"	3043		269-26-30					10.0	+39.8			Δ			
9	"	1283		91-12-15					10.0	-	-37.0	218.3	-		825	
10		0							5.8		-5.8	249.5				
11	W	468		92-58-33					10.0		-34.3	221.0	-		826	
12	"	2240		90-28-00					10.0	-28.2	-28.6	226.7	0		827	230.7
13	"	2240		269-30-11					10.0	-29.4			0			
14	E	2530		90-35-10					10.0	+35.9	+36.5	263.2	Δ			
15	"	2530		269-23-15					10.0	+37.0			Δ			
16	"	770		90-53-55					10.0		-22.1	241.1	-		828	
17		0							5.8		-5.8	257.4			828+770	π
18	W	990		89-18-30					5.0		+ 26.9	270.2	-		829	
19	"	2750		89-15-15					5.0	+30.8	+30.2	293.4	0		830	297.3 298.9
20	"	2750		270-43-11					5.0	+29.5			0			

14.83
 2.00 F
 1283
 7.68
 5.0
 4.68
 18.2
 2.0
 17.2

TI-598B

WORKED BY _____ CHECKED BY 1st _____ 2nd _____ *MW*

STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 45
 LINE No.(s) 68 PARTY No. 1184 DATE 10 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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													293.4		
2														830	
3	E	2970		91-35-40				10.0	+92.6	+93.4	386.8		Δ		
4	"	2970		268-22-40				10.0	+94.1				Δ		
5	"	1210		92-17-05				10.0		-58.2		329.6	-	831	
6		0								-5.8		386.0	-	831	1210 π
7	W	550		88-12-33				5.0		+12.2		399.0	-	832	
8	"	1320		88-29-44				14.0	+20.7	+20.3		407.1	⊙	832+	770 411.1
9	"	1320		271-28-35				14.0	+20.0				⊙		
10	E	2750	✓					13.7	+13.7	+13.7	420.8		Δ		
11	"	2750		90-04-35				10.0	+13.7				Δ		
12	"	1760		90-28-26				10.0		-24.6		396.2	-	833	
13		0						5.5		-5.5		415.3	-	834	π
14	W	1210		89-03-55				6.0	+13.7	+13.5		434.3	⊙	834+	1210
15	"	1210		270-54-44				6.0	+13.3				⊙		438.4
16	E	1980		89-07-50				5.0	-25.0	-24.5	409.8		Δ		
17	"	1980		270-50-20				5.0	-24.0				Δ		
18	"	1430		89-03-50				5.0		+18.4		428.2	-	835	10 MILE MARKER PIPE
19		0								-5.8		404.0	-	835+14	30 π
20		330	✓					5.0		-5.0		404.8	-	836	

TI-598B

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

W

14.1
2.0
12.1

STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 46
 LINE No.(s) 68 PARTY No. 1184 DATE 10 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W. O. HELANDER RODMAN L. COMIN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	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				INST.	ROD			
1												409.8				
2																
3	W	1320		89-33-40				6.0	+4.1	+3.8		413.6	⊙	836+	990 417.8	
4	"	1320		270-24-50				6.0	+3.5				⊙			
5	E	3080		88-33-00				10.0	-67.9	-67.0	346.6		Δ			
6	"	3080		271-25-00				10.0	-66.1				Δ			
7	"	2310		88-42-55				5.0		+46.8		393.4	-	837		
8	"	2200		88-49-55				4.6		+40.2		386.8	-	837+	110	
9	"	1760		89-25-25				4.6		+13.1		359.7	-	837+	550	
10	"	550		91-34-00				10.0		-25.0		321.6	-	838		
11		0								-5.8		340.8	-	838+550	π	
12	W	1210		89-04-15				10.0		+9.6		356.2	-	839		
13	"	2970		89-18-20				14.0	+22.0	+21.4		368.0	⊙	840	372.1 374.8	
14	"	2970		270-40-15				14.0	+20.8				⊙			
15																
16																
17																
18																
19																
20																

TI-598B

WORKED BY _____ CHECKED BY 1st _____ 2nd _____ *AW*

STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 47
 LINE No.(s) 68 PARTY No. 1184 DATE 11 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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	Correc-tion			Center Hair	INST.			
1											368.0				
2													840		
3	E	1760		91-29-17				10.0	+55.7	+56.2	424.2	Δ			
4	"	1760		268-28-55				10.0	+56.6			Δ			
5		0											841	π	
6	W	1760		87-33-50				10.0		+3.4	427.6	-	842		
7	"	2970		89-32-40				5.0	18.6	+17.9	442.1	0	842+1210	446.1	
8	"	2970		270-25-40				5.0	17.2			0			
9	E	3080		90-27-00				10.0	34.2	+34.9	477.0	Δ			
10	"	3080		269-31-25				10.0	35.6			Δ			
11	"	2540		90-28-45				10.0		-31.2	443.8	-	843		
12	"	770		91-44-30				10.0		-33.4	443.6	✓ -	844		
13		0						5.6		-5.6	471.4		844+770	π	
14	W	990		89-49-35				14.0	-11.0	-11.2	465.8	0	845	469.9 473.1	
15	"	990		270-08-58				14.0	-11.5			0			
16	E	2310		89-00-33				5.0	-34.9	-34.4	431.4	Δ			
17	"	2310		270-57-55				5.0	-33.9			Δ			
18	"	1760		87-16-22				4.0		+18.3	449.7	-	845+550		
19	"	1100		87-45-50				4.0		+0.5	436.9	-	845+1210		
20	"	550	✓					6.1		-6.1	425.3	-	846		

TI-5988

WORKED BY _____

CHECKED BY 1st _____

2nd _____

AW

STADIA SURVEY NOTES

AREA IKPIKPOK RIVER STATE or PROVINCE ALASKA PAGE No. 48
 LINE No.(s) 68 PARTY No. 1184 DATE 11 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W. D. HELANDER RODMAN L. COMIN 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	Correc-tion	Center Hair			INST.	ROD			
1												431.4				
2		0													346+550	π
3	W	1210		88-11-14				5.0		+33.3		464.7	-	847		
4	"	1540		87-52-11				5.0		+52.2		483.6	-	847+330		
5	"	2200		87-38-30				5.0		+85.5		516.9	-	847+990		
6	"	2970		87-35-22				10.0	114.9	+114.3		545.7	0	848	549.7	545.7
7	"	2970		272-23-10				10.0	113.7				0			
8	E	2750		91-26-00				10.0	78.8	79.4	625.1		A			625.1
9	"	2750		268-32-35				10.0	79.9				A			
10	"	2200		91-29-00				4.0		-60.9		564.2	-	848+550		
11	"	1760		91-32-30				4.0		-51.4		573.7	-	848+990		
12	"	990		91-02-44				10.0		-28.1		597.0	-	849		
13		0						5.6		-5.6		619.5		849+990		π
14	W	770	✓					8.0		-8.0		617.1	-	850		
15	"	1100	✓					13.8		-13.8		611.3	-	850+330		
16	"	1320		90-23-33				10.0	-19.0	-19.3		605.8	0	850+550		605.8
17	"	1320		269-35-05				10.0	-19.6				0		609.9	
18	E	2970		88-06-00				10.0	-88.5	-87.7	518.1		A			518.1
19	"	2970		271-52-14				10.0	-86.9				A			
20	"	2090		88-07-11				4.0		+64.6		582.7	-	850+	1430	

TI-5888

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

W

STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 49
 LINE No.(s) 68 PARTY No. 1184 DATE 11 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN WEATHER: _____ 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.			
1											518.1				
2															
3	E	1760		88-04-50					+54.0		528.1	-	851		
4	"	1210		88-13-13					+33.6		551.7	-	851+	550	
5	"	550		89-09-10					+4.1		522.2	-	851+	1210	
6	"	0									512.5	-	852	7	
7	W	550		92-26-50					-33.5		489.6	-	852+	550	
8	"	1650	✓						-5.2		512.9	-	852+	1650	
9	"	1760		90-03-00					-24.5		493.6	-	853		
10	"	2090		89-49-40					+1.3		519.4	-	853+	330	
11	"	2530		89-36-50					+13.0		531.1	-	853+	770	
12	"	2750		89-27-25					+22.1		540.2	-	853+	990	
13	"	2970		89-23-10					+26.8		544.9	-	853+	1210	
14	"	3410		89-21-20					28.4	+27.7	545.8	○	853+	1650	
15	"	3410		90-37-25					27.1			○		549.8	
16														545.8	
17														544.0	
18															
19															
20															

TI-588B

WORKED BY _____ CHECKED BY 1st _____ 2nd _____ *AW*

STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 50
 LINE No.(s) 68 PARTY No. 1184 DATE 12 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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											545.8				
2													853+1650	545.8	
3	E	660		87-36-40				5.0	-22.5	-22.4	523.4	Δ		523.4	
4	"	660		77-22-44				5.0	-22.4			Δ ₁			
5	"	550		87-18-40				5.0		+20.8	544.2	-	854		
6	"	220		87-15-00				4.0		+6.6	530.0	-	854+330		
7		0						5.6		-5.6	512.8		854+550	π	
8	W	660		93-58-10				10.0		-55.7	467.7	-	854+1210		
9	"	1210		93-34-44				10.0		-85.5	437.9	-	855		
10	"	1760		91-55-00				10.0		-68.9	454.5	-	855+550		
11	"	2420		92-04-00				10.0	-97.3	-97.7	425.7	○	855+1210	425.7	
12	"	2420		267-54-50				10.0	-98.1			○		429.6	
13	E	3080		82-53-30				5.0	-0.8	0.0	425.7	Δ		425.7	
14	"	3080		270-04-44				5.0	+0.8			Δ ₁			
15	"	2530		90-19-50				10.0		-24.6	401.1	-	856		
16	"	770		91-33-15				10.0		-30.9	394.8	-	857		
17		0						5.6		-5.6	420.1		857+770	π	
18	W	990		89-28-30				5.0		+4.1	429.8	-	858		
19	"	1540		89-33-14				10.0		+2.0	427.7	-	858+550	434.1	
20	"	1760		89-32-50				14.0	-0.1	-0.5	425.2	○	858+770	425.2	
TI-588B		1760		270-25-33				14.0	-0.9			○		429.2	

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

11.8
E.S.
680

W

STADIA SURVEY NOTES

AREA IKPIKPOK RIVER STATE or PROVINCE ALASKA PAGE No. 51
 LINE No.(s) 68 PARTY No. 1184 DATE 12 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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													425.2		958+770	425.2
2																
3	N	1740		91-32-45				10.0	+56.9	+57.4	492.6			Δ		492.6
4	"	1740		268-25-25				10.0	+57.9					Δ		
5		0														
6	S	1000		87-37-42				10.0	+31.4	+31.1		513.7		0	517.8	513.7
7	"	1000		212-20-37				10.0	+30.9					0		
8	N	940		91-52-25				10.0	+40.7	+41.0	554.7			Δ		554.7
9	-	940		268-05-50				10.0	+41.2					Δ		
10		0														
11	S	780		88-24-10				5.0	+16.7	+16.6		571.3		0	575.3	571.3
12	"	780		271-34-10				5.0	+16.4					0	580.5	
13																-5.2 TIE
14												580.5			BAS ¹²⁰	580.5
15																-9.2 ves. mistle
16																
17																
18																
19																
20																

13.7 1/2
5.0
8.7

14.4
4.1
10.0

14.4
5.0
9.4

10.8
3.0
7.8

TI-588B

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2nd _____

STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 52
 LINE No.(s) 68 PARTY No. 1184 DATE 12 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadio Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1													590.5		B.A.S. # 6820	
2																
3																
4		780		88-29-16					5.0	-16.7	+16.6	563.9		Δ		
5		780		271-39-10					5.0	-16.4				Δ		
6		0														
7		940		91-52-25					10.0	+40.7	-91.0		522.9	⊙		
8		940		268-05-50					10.0	+91.2				⊙		
9		1000		87-37-42					10.0	+31.4	+31.1	491.8		Δ		
10		1000		272-20-37					10.0	+30.9				Δ		
11		0														
12		1740		91-32-45					10.0	-56.9	-57.4		434.4	⊙		
13		1740		268-29-25					10.0	+57.9				⊙		
14	E	1100		89-44-40					5.0	+0.1	+0.4	434.9		Δ	858+770	
15	"	1100		270-13-33					5.0	+0.7				Δ		
16	"	110	✓						4.2		-4.2		430.6	-	859	
17									5.6		-5.6		429.2		859+110	π
18	W	440		92-19-15					10.0		-27.8		407.0		859+550	3
19	"	1650		92-14-30					10.0	-74.5	-75.0		359.8	⊙	860	
20	"	1650		267-43-44					10.0	-75.4				⊙		✓

TI-588B

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 53
 LINE No.(s) 68 PARTY No. 1184 DATE 12 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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	Correc-tion			Center Hair	INST.			
1											359.8				
2													860		
3	E	1760		92-32-30				5.0	83.0 + 83.4	943.2		A			
4	"	1760		267-26-00				5.0	83.8			A			
5	"	1210		92-46-50				4.0	-62.7		390.5	-	860 + 550	3	
6	"	770		92-41-35				4.0	-40.2		403.0	-	860 + 990	5	
7		0					H1	5.5	-5.5		432.7		861	π	
8	W	1760		88-06-11				5.0	53.3 + 52.9		496.1	⊙	862	✓	
9	"	1760		271-52-20				5.0	52.5			⊙			
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

TI-5688

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Gale Myers

CHECKED BY 1st

2nd

[Signature]

STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 54
 LINE No.(s) 68 PARTY No. 1184 DATE 13 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W. D. HELANDER RODMAN L. COMIN 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																
2												496.1		862		
3	E	2970		91-14-11					10.0	+74.1	+74.7	570.8		Δ		
4	"	2970		268-44-30					10.0	+75.2				Δ		
5	"	2200		91-17-30					4.0		-53.6		517.2	-	862+770	"
6	"	1210		90-56-35					10.0		-29.9		540.9	-	863	
7		0											565.2		863+1210	π POT 25
8	W	550	✓						5.6		-5.6		563.8	-	864	
9	"	1540		90-28-15					7.0		-7.0		543.9	0	864+990	✓
10	"	1540		269-30-30					14.0	-27.2	-26.9			0		5
11	E	2530		89-29-40					5.0	-17.3	-16.8	527.1		Δ		
12	"	2530		270-28-55					5.0	-16.3				Δ		
13	"	1760		89-40-44					5.0		+4.7		532.0	-	865	10 MILE MARKER PIPES
14		0											521.4		866	π
15	W	770		90-41-40					5.7		-5.7		503.6	0	866+770	✓
16	"	770		269-16-44					14.0	-23.3	-23.5			0		4
17	E	3080		88-54-10					14.0	-23.7				0		
18	"	3080		271-04-15					5.0	-59.0	-53.3	450.3		Δ		
19	"	2420		89-28-11					5.0	-52.6				Δ		
20	"	2090		89-48-11					4.0		+18.4		468.7	-	866+1430	?
20	"	2090		89-48-11					5.0		+2.2		452.5	-	867	

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 55
 LINE No.(s) 68 PARTY No. 1184 DATE 13 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMAN WEATHER: _____ 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												450.3			866+770	
2																
3	E	1100		71-27-15					4.0	-31.9		418.4	-		867+990	
4	"	330	✓						8.3	-8.3		442.0	-		868	
5		0							5.6	-5.6		444.7			868+330 IK	
6	S	1560		87-28-22					5.0	+63.8	+63.4	513.7	⊖		BAS #6821	514.0 ✓
7	"	1560		272-30-03					5.0	+63.1			⊖			0.3 TIG
8																
9																
10																
11																
12																
13	S	1560		87-28-22					5.0	-63.8	-63.4	450.9	Δ			
14	"	1560		272-30-03					5.0	-63.1			Δ			
15		0														
16	W	1430		91-37-11					14.0	-54.4		396.5	-		868+330 IK	
17	"	3190		90-13-44					10.0	-23.7	-23.6	427.3	⊖		870	427.1 426.6
18	"	3190		269-44-30					10.0	-24.4			⊖			
19	E	2970		92-24-30					10.0	134.8	135.6	562.9	Δ			
20	"	2970		267-33-45					10.0	136.3			Δ			

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STADIA SURVEY NOTES

AREA IKPIKUK RIVER

STATE or PROVINCE ALASKA

PAGE No. 56

LINE No.(s) 68

PARTY No. _____

DATE 13

Day 2

Mo. 77

Yr. BOOK No. _____

SURVEYOR W.D. HELANDER

RODMAN L. COMIN

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	Correc-tion			Center Hair	INST.			
1											562.9		870		
2	E	1760		92-35-60				4.0	-83.3		479.6	-	870	+1210	
3	"	1210		92-32-11				10.0	-63.5		499.4	-	871		
4	"	660		92-38-44				4.0	-36.0		526.9	-	871	+550	
5	"	220		93-50-22				4.0	-18.7		544.2	-	871	+990	
6	"	0											871	+1210 π	
7	W	550		87-36-25				10.0	+13.0	+12.8		575.7	0	872	574.8
8	"	550		272-22-00				10.0	+12.7				0	872	
9	E	1870		91-00-30				10.0	+42.9	+43.4	619.10		Δ		
10	"	1870		268-57-50				10.0	+43.8				Δ		
11	"	110		91-09-25				4.0		-6.2		612.9	-	873	TP 26
12														873	+110 π
13	W	1650		91-27-45				10.0		-52.1		567.0	-	874	
14	"	2640		91-14-55				10.0	-67.5	-68.1		551.0	0	874	+990
15	"	2640		268-43-35				10.0	-68.7				0		550.9 549.5
16	E	2530		90-49-20				5.0	+41.3	+41.9	592.9		Δ		
17	"	2530		269-09-11				5.0	+42.4				Δ		
18	"	1760		91-01-10				10.0		-41.3		551.6	-	875	
19		0						4.1		-5.6		587.3	-	876	π
20	W	1760		86-22-00				10.0		+101.5		694.4	-	877	

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2nd _____

W

STADIA SURVEY NOTES

AREA IKPIKUK RIVER STATE or PROVINCE ALASKA PAGE No. 57
 LINE No.(s) 68 PARTY No. 1184 DATE 14 [♥] Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELAUER RODMAN L. COMIN 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	Correc-tion			Center Hair	INST.			
1															
2	<u>W</u>	<u>1870</u>		<u>86-26-30</u>				<u>10.0</u>	<u>106.1</u>	<u>+105.7</u>		<u>698.6</u>	<u>0</u>	<u>877+110</u>	
3	<u>S 11°</u>	<u>1870</u>		<u>223-32-05</u>				<u>10.0</u>	<u>105.3</u>			<u>0</u>	<u>698.5</u>	<u>696.6</u>	
4	<u>E</u>	<u>1320</u>		<u>90-45-20</u>				<u>10.0</u>	<u>27.4</u>	<u>+27.7</u>	<u>726.3</u>	<u>Δ</u>			
5	<u>"</u>	<u>1320</u>		<u>269-13-20</u>				<u>10.0</u>	<u>27.9</u>			<u>Δ</u>			
6	<u>0</u>	<u>0</u>											<u>877+1430</u>	<u>X</u>	
7	<u>W</u>	<u>330</u>	<u>✓</u>					<u>13.5</u>		<u>-13.5</u>		<u>712.8</u>	<u>-</u>	<u>878</u>	
8	<u>"</u>	<u>2090</u>		<u>89-51-10</u>				<u>5.0</u>	<u>+0.4</u>	<u>-0.1</u>		<u>726.2</u>	<u>0</u>	<u>879</u>	
9	<u>"</u>	<u>2090</u>		<u>270-07-22</u>				<u>5.0</u>	<u>-0.5</u>				<u>0</u>	<u>726.0</u> <u>723.7</u>	
10	<u>E</u>	<u>1760</u>		<u>93-30-00</u>				<u>10.0</u>	<u>117.4</u>	<u>117.9</u>	<u>844.1</u>	<u>Δ</u>			
11	<u>"</u>	<u>1760</u>		<u>266-28-20</u>				<u>10.0</u>	<u>+119.3</u>			<u>Δ</u>			
12	<u>"</u>	<u>1320</u>		<u>84-11-00</u>				<u>4.0</u>		<u>-100.3</u>		<u>743.8</u>	<u>-</u>	<u>879+440</u>	
13	<u>"</u>	<u>550</u>		<u>94-22-30</u>				<u>4.0</u>		<u>-46.0</u>		<u>798.1</u>	<u>-</u>	<u>879+1210</u>	
14		<u>0</u>						<u>5.5</u>		<u>-5.5</u>		<u>838.6</u>		<u>880</u> <u>X</u>	
15	<u>W</u>	<u>606</u>		<u>87-47-20</u>				<u>5.0</u>	<u>+18.4</u>	<u>118.2</u>		<u>862.3</u>	<u>0</u>	<u>880+606</u> <u>BAS^W 8822</u>	
16	<u>"</u>	<u>606</u>		<u>222-11-10</u>				<u>5.0</u>	<u>118.1</u>				<u>0</u>	<u>862.2</u> <u>859.6</u>	
17												<u>859.6</u>		<u>+2.6</u> <u>T.C.</u> <u>✓</u>	
18															
19											<u>MISTIE</u>	<u>+2.7</u>			
20															

TI-568B

WORKED BY

Gene Meyer

CHECKED BY 1st

2nd

W

STADIA SURVEY NOTES

AREA IKPIK PUK RIVER STATE or PROVINCE ALASKA PAGE No. 58
 LINE No.(s) 68 PARTY No. 1184 DATE 19 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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	Correc-tion	Center Hair			INST.	ROD				
1																	
2	E	2914		88-55-25													
3	"	2914		271-62-50													
4	"	1760		89-20-00													
5		0						H1	5.6		-5.6		810.0			882	π
6	W	1760	✓						1.7		-1.7		813.9	-		883	
7	"	3190		89-36-50					5.0	+16.5	+15.8		831.4	0		883+1430	
8	"	3190		270-21-40					5.0	+15.1				0			831.8
9	E	660		97-44-10					10.0	-16.1	-15.9	815.9		Δ			
10	"	660		272-14-10					10.0	-15.8				Δ			
11	"	330		87-16-33					5.0		+10.7		826.2	-		884	
12		0						H1	5.6		-5.6		809.9			884+330	π
13	W	1430		92-59-05					10.0		-84.5		731.0	-		885	
14	"	1490		92-51-50					5.0		-105.7		709.8	-		885+550	
15	"	2640		92-51-00					10.0	141.3	-142.0		673.5	0		885+1210	
16	"	2640		267-07-10					10.0	-142.0				0			674.2
17																	
18																	
19																	
20																	

TI-588B

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 59
 LINE No.(s) 68 PARTY No. 1184 DATE 15 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W. D. HELANDER RODMAN L. COMIN 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	Correc-tion			Center Hair	INST.			
1											673.5				
2													885+	1210	
3	E	1980		88-11-15				10.0	-52.6	-52.1	621.9		Δ		
4	"	1980		271-46-50				10.0	-51.5				Δ,		
5	"	1430		88-09-40				14.0		+31.9		653.3	-	886	
6		0					HI	5.6		-5.6		615.8	-	886+ 1430 X	
7	W	330		93-17-30				10.0		-28.9		592.5	-	887	
8	"	1100		90-41-15				10.0		-23.2		598.2	-	887+ 770	
9	"	1540	✓					11.3		-11.3		610.1	-	887+ 1210	
10	"	2090	✓					4.3		-4.3		617.1	-	888	
11	"	2420	✓					6.8	-6.8	-6.8		614.6	0	888+ 330	
12	"	2420		89-55-30				10.0	-6.8				0,	614 615.4	
13	E	3190		87-58-25				5.0	-107.8	-109.4	505.2		Δ		
14	"	3190		271-59-45				5.0	-111.1				Δ,		
15	"	2750		88-05-50				4.0		+87.3		592.5	-	888 + 770	
16	"	2710		88-16-11				4.0		+65.7		570.9	-	888+ 1210	
17	"	1760		88-30-22				10.0		+35.9		541.1	-	889	
18		0					HI	5.5		-5.5		499.7	-	890 X +2.5	
19	W	550		92-30-22				6.0		-30.0		475.2	-	890+ 550	
20	"	1210		90-26-50				6.0		-15.4		489.8	-	890+ 1210	

TI-558B

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2nd _____

M.D.

STADIA SURVEY NOTES

AREA IKPIKPOK RIVER STATE or PROVINCE ALASKA PAGE No. 60
 LINE No.(s) 68 PARTY No. 1184 DATE 15 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR A.D. HELAUER RODMAN L. COMIN 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	Correc-tion			Center Hair	INST.			
1											503.2		988+330		
2															
3	W	1760		89-33-05				5.0	+8.8		514.0	-	891		
4	"	2530		88-46-40				6.0	+48.0		553.2	-	891+ 770		
5	"	2970		88-29-20				5.0	+73.3	+72.8	528.0	0	891+ 1210		
6	"	2970		87-29-22				5.0	+72.2			0	580.2	581.6	
7	E	1320		92-54-50				10.0	+77.1	+77.4	655.4	Δ			
8	"	1320		267-03-37				10.0	+77.7			Δ			
9	"	770		92-33-10				10.0	-44.3		611.1	-	892		
10	"	440		92-39-55				4.0	-29.5		630.9	-	892+		
11		0					HI	5.5	-5.5		649.9		892+770		
12	W	220	✓					2.9	-2.9	-2.9	652.5	0	BAS# 6823	654.8	
13	"	220		89-27-07				5.0	-2.9			0		656.3	
14											656.3		BAS# 6823	ELEV	
15														-1.5 TIE	
16											656.3			656.3	
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 61
 LINE No.(s) 68 PARTY No. 1184 DATE 16 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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.		
1			TAKE OFF			BAS			#6823		656.3			
2														
3	E	790	87-54	10				10.0	-18.9	-18.9	632.4		Δ	
4	"	790	272-06	00				10.0	-18.9				Δ ₁	
5		0					HI	5.6		-5.6	631.8	893	X	
6	W	1760	90-38	00				10.0		-29.5	607.9	894	-	
7	"	2970	89-49	11				5.0	+4.3	+4.5	641.9	894+	210	
8	"	2970	270-11	10				5.0	+4.6			0 ₁	641.7	
9	E	1100	88-42	40				14.0	-10.7	-10.9	631.0		Δ	
10	"	1100	271-18	05				14.0	-11.0				Δ ₁	
11	"	550	88-28	35				5.0		-5.0	626.0	895	MARKER PIPE 640-5	
12		0					HI	5.6		-5.6	625.4	895+	550 X	
13	W	1210	92-45	38				10.0		-68.3	562.7	896	-	
14	"	2970	92-54	00				10.0	-160.3	-160.2	470.8	897	470-6	
15	"	2970	267-06	13				10.0	-160.1			0 ₁		
16	E	2750	88-31	00				10.0	-61.2	-61.5	409.3		Δ	
17	"	2750	271-29	45				10.0	-61.8				Δ ₁	
18	"	996	91-15	40				10.0		-31.8	372.5	898	-	
19		0					HI	5.4		-5.4	403.9	898+	990 X	
20	W	770	88-24	40				5.0		+16.4	425.7	899	-	

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 62
 LINE No.(s) 68 PARTY No. 1184 DATE 16 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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												409.3		897		
2																
3	W	2530		88-21-10					5.0	+67.7	+67.9		477.2	0	900	
4	"	2530		271-39-14					5.0	+68.0				0		✓
5	N	760		92-04-40					5.0	33.7	+33.0	510.2		Δ		
6	"	760		867-55-55					5.0	32.4				Δ		
7		0														
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER STATE or PROVINCE ALASKA PAGE No. 63
 LINE No.(s) 68 PARTY No. 1184 DATE 16 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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																
2																
3		0														
4																
5																
6	NW	1275		90-46-00												
7	"	1590		90-52-11												
8	"	1590		269-08-11												
9	E	2420		88-35-10												
10	"	2420		271-25-30												
11	"	990		91-06-40												
12		0														
13	W	770	✓													
14	"	1980		89-36-40												
15	"	1980		270-23-35												
16	E	1980		90-52-22												
17	"	1980		269-08-22												
18	"	1430		91-30-33												
19		0														
20	W	330	✓													

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2nd _____

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STADIA SURVEY NOTES

AREA TITALUK RIVER STATE or PROVINCE ALASKA PAGE No. 64
 LINE No.(s) 68 PARTY No. 1184 DATE 16 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ΔB.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												464.7			905+1210	
2																
3	W	1555		88-24-20					10.0	+33.3	+33.4		498.1	0	905+1225	BAS # 6825
4	"	1555		271-36-11					10.0	+33.5				0		
5												ELEV. BAS # 6825	499.2			✓
6																
7												Mistie	-0.1			
8																
9																
10																
11																
12																
13																
14	E	2295		89-28-15					5.0	-16.2	-16.4	496.8		Δ		
15	"	2295		270-32-17					5.0	-16.6				Δ		
16	"	1760		89-31-45					5.0		+9.5		491.3	-	906	
17		0							5.6		-5.6		476.2		907	π
18	W	990		91-00-45					14.0	-31.5	-31.5		450.3	0	907+990	
19	"	990		268-59-33					14.0	-31.4				0		450-5 ✓
20																

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STADIA SURVEY NOTES

AREA TITALUK RIVER STATE or PROVINCE ALASKA PAGE No. 65
 LINE No.(s) 68 PARTY No. 1184 DATE 16 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W. D. HELANDER RODMAN L. COMIN WEATHER: _____ 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													450.3			
2															907+990	
3	E	2530		87-46-45					5.0	-93.6	-93.3	352.0		Δ		
4	"	2530		272-13-50					5.0	-93.5				Δ		
5	"	1760		88-09-35					5.0		+51.5		408.5	-	908	
6		0						H1	5.6		-5.6		351.4	-	909	π
7	W	1760		89-28-50					5.0		+11.0		346.0	-	910	368.2
8	"	2970		88-48-50					5.0	+56.5	+56.8		413.8	0	910+	1210
9	"	2970		271-12-00					5.0	+57.2				0		414.0
10	E	1980		92-33-50					10.0	+98.6	+98.4	512.2		Δ		
11	"	1980		267-26-50					10.0	+98.2				Δ		
12	"	1430		92-30-50					10.0		-72.7		439.5	-	911	
13		0							H1	5.6			507.2	-	911+1430	π
14	W	330		88-41-35					5.0		+2.5		514.7	-	912	
15	"	1760		89-12-00					10.0	+19.6	+14.7		526.9	0	912+	1430
16	"	1760		270-48-22					10.0	+14.8				0		527.1
17	E	440	✓						11.1	+11.1	+11.4	538.3		Δ		
18	"	440	✗	90-51-25					5.0	+11.6				Δ		
19	"	110		90-46-50					4.0		-5.5		532.8	-	913	
20		0													913+	110

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STADIA SURVEY NOTES

AREA TITALUK RIVER STATE or PROVINCE ALASKA PAGE No. 66
 LINE No.(s) 68 PARTY No. 1184 DATE 16 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	W	1320		90-37-50					14.0	-28.5	-29.4		509.9	0	913+	1430 ✓
4	"	1320		269-22-50					14.0	-28.3				0		510.0
5	E	2090		88-52-38					5.0	-36.0	-36.1	473.8		Δ		
6	"	2090		271-07-50					5.0	-36.2				Δ		
7	"	1760		89-01-10					5.0		+25.1		499.9	-	914	
8		0						H1	5.6		-5.6		468.2	-	915	π
9	W	1760		92-31-20					10.0		-27.5		386.3	-	916	
10	"	2970		94-06-20					10.0	-67.3	-67.1		406.7	0	916+	1210 ✓
11	"	2970		268-34-10					10.0	-66.9				0		
12	E	1760		91-10-11					10.0	+45.9	+45.7	452.4		Δ		
13	"	1760		268-00-33					10.0	+45.6				Δ		
14	"	1210		91-54-22					10.0		-50.2		402.2	-	917	
15		0														917+1210
16	W	550		91-22-35					5.0		-18.2		434.2	-	918	
17	"	2310		90-10-15					10.0	-16.9	-16.7		435.7	0	919	
18	"	2310		269-50-15					10.0	-16.6				0		
19	E	3190		91-56-05					10.0	+117.7	+117.4	553.1		Δ		
20	"	3190		268-04-33					10.0	+117.1				Δ		

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STADIA SURVEY NOTES

AREA TITALUK RIVER STATE or PROVINCE ALASKA PAGE No. 67
 LINE No.(s) 68 PARTY No. 1124 DATE 16 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W. D. HELANDER RODMAN L. CO. MIN. 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	Correc-tion	Center Hair			INST.	ROD			
1												553.1			919	
2																
3	E	1430		92-32	45				20.0		-83.5		469.6	-	920	
4		0													920+1430	π
5	S	380	✓						3.1	-3.1	-3.1		550.0	0	Δ TALUK	✓
6	"	380		89-42	25				5.0	-3.1				0	550.2	
7															41.6	TIE
8												ELEV. Δ TALUK	548.6			
9																
10												MISTIE	-1.9			
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

THERE IS NO BRASS CAP AT Δ TALUK
 ELEVATION TAKEN AT GROUND LEVEL.

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STADIA SURVEY NOTES

AREA TITALUK RIVER STATE or PROVINCE ALASKA PAGE No. 68
 LINE No.(s) 68 PARTY No. 1184 DATE 17 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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	Correc-tion	Center Hair			INST.	ROD			
1			ELEVATION CARRIED ON THRU FROM ORIGINAL									553.1				
2			TAKE OFF AT BAS #6825 - NOT A TALUK													
3	W	330	✓					6.7	-6.7	-6.7		546.4	⊙	921	546.6	✓
4	"	330		90-17-55				5.0	-6.7				⊙			
5	E	2750		87-49-40				10.0	-94.2	-94.7	451.7		Δ			5
6	"	2750		272-11-27				10.0	-95.1				Δ			
7	"	1980		88-05-20				4.0		+61.9		513.6	-	921-4		
8	"	990		89-01-22				5.0		+11.9		463.6	-	922		
9		0						5.6		-5.6		446.1	-	922-5		
10	W	770		90-47-47			H1	10.0		-20.7		431.0	-	923		
11	"	1540		91-15-33				10.0	-43.8	-43.6		408.1	⊙	923-4	408.4	✓ 770
12	"	1540		268-45-33				10.0	-43.3				⊙			
13	E	1540		86-28-25				14.0	-80.7	-80.9	327.2		Δ			
14	"	1540		273-32-15				14.0	-81.0				Δ			
15	"	550		86-14-20				5.0		+31.1		358.3	-	924		
16		0						5.6		-5.6		321.6	-	924-3		
17	W	1210		93-58-45				5.0		-89.0		238.2	-	925	MARKER PIPE	
18	"	1540		94-04-50			BOOST 6.0'	20.0		-129.6		197.6	-	925-2		
19	"	2970		91-02-25				10.0	-63.9	-63.8		263.4	⊙	926		
20	"	2970		268-58-00				10.0	-63.6				⊙		263.7	✓

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STADIA SURVEY NOTES

AREA TITAKUK RIVER STATE or PROVINCE ALASKA PAGE No. 69
 LINE No.(s) 68 PARTY No. 1184 DATE 17 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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												263.4			
2														926	
3	E	1210		90-52-45				10.0	28.6	+28.5	291.9		Δ		
4	"	1210		267-08-00				10.0	28.3				Δ		
5		0					HI	5.6		-5.6		286.3		926-6	
6	W	550		93-08-50				10.0		-40.2		251.7		927	
7	"	1760		92-54-40				10.0		-99.4		192.5		927-6	
8	"	2310		91-51-45				10.0	-85.1	-84.8		207.1	0	928	207.3 ✓
9	"	2310		268-09-10				10.0	-84.5				0		
10	W	1760		89-47-15				14.5	8.0	+7.7	214.8		Δ		
11	"	1760		270-13-55				14.5	7.4				Δ		
12		0					HI	5.6		-5.6		209.2		929 π	
13	W	1320		89-48-35				14.0		-9.6		205.2		930	2068??
14	"	3520		88-43-41				5.0	73.1	+73.3		288.1	0	931	✓
15	"	3520		271-16-48				5.0	73.6				0		
16	E	990		89-20-15				14.0	2.6	+2.5	290.6		Δ		
17	"	900		270-41-44				14.6	2.3				Δ		
18		0					HI	5.6		-5.6		285.0		931-5 π	
19	W	770		93-06-30				10.0		-51.8		238.8		932	
20															

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2nd _____

STADIA SURVEY NOTES

AREA TITALUK RIVER STATE or PROVINCE ALASKA PAGE No. 70
 LINE No.(s) 68 PARTY No. 1184 DATE 17 Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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												290.6				
2																
3	W	1320		93-03-25					10.0	-80.4		210.2	-	932-3		
4	"	2530		91-31-54					10.0	-77.6	-77.4	213.2	0	933		
5	"	2530		268-28-42					10.0	-77.2			0			
6	E	1760 ✓							9.3	+9.3		222.5	Δ			
7	"	1760		90-08-23					5.0	+9.3			Δ			
8		0					H1		5.6	-5.6		216.9		934	π	
9	W	550 ✓							4.8	-4.8		217.7	-	934-3		
10	"	1760		86-48-20					5.0	+95.6		318.1	-	935		
11	"	2750		86-34-50					10.0	154.00	+154.3	376.8	0	935-5	376.6	/
12	"	2750		273-25-44					10.0	184.5			0			
13	E	770		90-40-22					10.0	19.0	+19.0	395.8	Δ			
14	"	770		269-20-22					10.0	18.9			Δ			
15		0					H1		5.0	-5.6		390.2	0	936	π	
16	NW	1114		88-24-33					5.0	25.9	+26.0	421.8	0	BAS #6826		
17	"	1114		271-36-00					5.0	26.1			0			
18												421.8				421.4
19												421.8				6.4
20												MISTIE	90			

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STADIA SURVEY NOTES

AREA TITALUK RIVER STATE or PROVINCE ALASKA PAGE No. 71
 LINE No.(s) 68 PARTY No. 1184 DATE 18 @ Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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				TAKE OFF			BAS # 4826						421.8			
2																
3	NW	1114		88-24-33					5.0	-25.9	-26.0	395.8		Δ		
4	"	1114		271-36-00					5.0	-26.1				Δ		
5		0						HI	5.6		-5.6	390.2			936	π
6	W	1430	✓						11.7		-11.7	384.1	0		936-7	384.2
7	"	1430	90	90-04-04					10.0	-11.7			0			
8	E	3080		90-12-20					10.0	21.0	+20.5	404.6		Δ		
9	"	3080		289-49-00					10.0	19.9				Δ		
10	"	2090		90-27-45					10.0		-26.9	377.7	-		937	
11	"	990		91-08-55					10.0		-29.8	374.8	-		938	
12		0						HI	5.6		-5.6	399.0			938-5	π
13	W	770		89-19-52					5.0		+4.0	408.6	-		939	
14	"	1540		89-30-17					10.0	3.3	+3.4	408.0	0		939-4	408.3
15	"	1540		270-30-13					10.0	3.5				0		
16	E	2750		87-53-00					5.0	-96.6	-96.9	311.1		Δ		
17	"	2750		272-07-50					5.0	-97.2				Δ		
18	"	1760		98-29-25					5.0		+41.9	353.0	-		940	
19	"	990		90-27-00					4.0		-11.8	299.3	-		940-4	
20		0						HI	5.7		-5.7	305.4			941	π

TI-568B

WORKED BY _____

CHECKED BY 1st _____

2nd _____

STADIA SURVEY NOTES

AREA TITALUK RIVER STATE or PROVINCE ALASKA PAGE No. 72
 LINE No.(s) 68 PARTY No. 1184 DATE 18 @ Day 2 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN L. COMIN 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	Correc-tion	Center Hair			INST.	ROD			
1												311.1				
2																
3	W	1760		90-16-44				10.0		-18.6		292.5	-	942		
4	"	3520		88-55-08				5.0	61.4	+61.7		372.8	0	943		LAST SP ON L-68
5	"	3520		271-05-27				5.0	62.0				0			MARKER PIPE
6	N	2463		90-35-10				10.0	35.2	+35.0		407.8	Δ			373.3
7	"	2463		269-25-30				10.0	34.7				Δ			
8		0						HI 6.5		-6.5		401.3				T
9												401.9			BAS # 6827	401.9
10																
11												-0.6				MISTIE
12																
13																
14																
15																
16																
17																
18																
19																
20																

TI-598B

WORKED BY _____ CHECKED BY 1st _____ 2nd _____