

STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE ALASKA PAGE No. 1
 LINE No(s) B1 PARTY No. 1182 DATE 9 Day 5 Mo. 78 Yr. BOOK No.
 SURVEYOR B.P. Bonadict RODMAN A Myers WEATHER: CLEAR-WIND P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair.			INST.	ROD				
1																	
2	NE	1760											13.0				
3		✓		270°00						-3.6	3.6	16.7		Δ	121		
4		2640											12.9	✓			
5		880											1.9		120		
6		0											10.6		122		
7	SW	880											11.5		123		
8		1760											10.5		124		
9		2640											11.0		125		
10				270°00						-2.6	2.5		14.2	⊙	126		
11														✓			
12	NE	2640		89.50													
13		✓		270.10						2.1	2.1	12.1		Δ			
14		1760											6.4	✓			
15		880											7.0		127		
16		0											5.9		128		
17	SW	880											6.9		129		
18		1760											6.5		130		
19		2640		90°00									6.8		131		
20		✓		270°00						-4.1	-4.0		8.1	⊙	132		

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2nd Don Kelleher

STADIA SURVEY NOTES

AREA NPP # STATE or PROVINCE ALASKA PAGE No. 2
 LINE No. (s) B1 PARTY No. 1182 DATE 11 Day 5 Mo. 18 Yr. BOOK No.
 SURVEYOR B.R. Benardit RODMAN A. Myro WEATHER: Cloudy - Wind P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	NE	2640		90° 00					81	+8.0	7.9	16.0	8.1	Δ		
3				270 00					80				8.0			
4		1760							66				9.4		133	
5		880							47				11.3		134	
6		0							53				10.7		135	
7	SW	880							33				12.7		136	
8		1760							50				12.0		137	
9		2640		90° 00					33	-3.2	3.2		12.8	○	138	
10				270 00					33							
11																
12	NE	2640		90° 00					77	+7.6	7.6	20.4		Δ		
13				270° 00					77				12.7	✓		
14		1760							80				12.4		139	
15		880							131				7.3		140	
16		0							53				15.2		141	
17	SW	880							72				13.2		142	995 B9 SW/W
18		1760							45				15.9		143	960 11.7
19		2640		90° 00					0.7	0.6	0.5		19.9	⊙	144	11.6 original
20				270° 00					0.5	0.5				✓		

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STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) B1 PARTY No. 1182 DATE 11 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R.P. Remedios RODMAN A. Myers WEATHER: Cloudy - Wind P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	NE	2640		90 00				85	6.4	8.4	28.2	19.9	Δ			
3		✓		270 00				84				19.8				
4		1760	—					57				22.5		145		
5		880	—					45				23.7		146		
6		0						52				23.0		147		
7	SW	880	—	90 30				12 6				15.6		148	?	5.0
8		1760	—	89 30				11 7				16.5		149	?	29.7
9		2640		89 50				52	2.5	2.6		30.8	0	150		
10				270 10				53					✓			
11																
12	NE	2640		89 50				91	1.3	1.3	32.1		Δ			
13		✓		270 10				92				22.9				
14		1760	—	270 10				63				25.8		151		
15		880	—	270.10				0.5				31.6		152		
16		0						52				26.9		153		
17	SW	880	—	89 30				55				26.6		154		32.1
18		1760		89 30				73				24.8		155		38.1
19		2640		89 30				97	13.5	13.4		45.5	0	156		
20		✓		270 30				98					✓			

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STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE Alaska PAGE No. 4
 LINE No.(s) 81 PARTY No. 1192 DATE 11 Day 5 Mo. 78 Yr. BOOK No. 1
 SURVEYOR B.R. Benedict RODMAN A. Myron WEATHER: Cloudy - Wind P.T.S. No. 1

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined.	Angle or Factor.	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	NE	1760		90 00				93	9.2	9.1	54.7	45.5	Δ			
3		✓		270 00				91				45.6				
4		880						43				50.4		157		
5		0						52				49.5		158		
6	SW	890		90 30				103				44.4		159	34.	
7		1760		90 40				155				39.2		160	16.	
8		2640		90 30				61	29.0	29.0		25.6	0	161		
9				269 30				62								
10																
11	NE	660		90 00				128	12.8	12.8	38.5		Δ			
12		✓		270 00				129								
13		0						52								
14	SW	229		90 00				60	6.0	6.0		32.5	0	162		
15		✓		270 00				60								
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPPA STATE or PROVINCE ALASKA PAGE No. 5
 LINE No. (s) B PARTY No. 1182 DATE 12 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR B. Benedict RODMAN J. Moore WEATHER: Cloudy - Wind 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	NE	2970		89 50				63	2.5	2.5	30.0	32.5	Δ			
3		✓		270 10				63				33.7	✓			
4		2090		270 10				40				36.0		163		30
5		1210		270 00				35				36.5		164		24
6		330		269 00				34				37.6		165		18
7		0						58				38.2		165 +	330	22
8	SW	550		90 10				65				38.5		166		20
9		1430		90 10				116				28.4		167		12
10		2310		89 50				96	2.9	2.8		27.2	0	168		
11		✓		270 10				95					✓			
12																
13	NE	1760		90 00				8	8.0	8.0	35.2		Δ			
14		✓		270 00				8				27.2	✓			
15		880		269 10				196				15.6		169		10
16		0						53				29.9		170		
17	SW	880		91 20				122				23.6		171		0
18		1760		90 00				92	9.1	9.2		26.0	0	172	✓	
19		✓		270 00				93					✓			
20																

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STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE ALASKA PAGE No. 6
 LINE No.(s) B1 PARTY No. 1182 DATE 12 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR R.L. Benedict RODMAN A. Myers 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		3520								21.3		47.4	26.0			
2	NE	3349		90 10				115		21.0	20.9	46.9		▲		
3		3340		269 50				114					35.5			
4	2660	3340		269 50				7					39.9		173	31
5		1760		269 50				62					40.7		174	34
6		880		269 50				47					42.2		175	
7		0						52					41.7		176	
8	SW	880		90 10				68					40.7		177	36
9		1760		90 10				73					32.6		178	31
10	2640	1760		90 10				74					39.5		179	30
11	3520	3340		90 10				38	13.0	13.9			33.5	○	180	
12	✓	✓		269 50				40	13.3	13.4				✓		
13																
14														▲		
15																
16																
17																
18															181	
19															182	
20															183	

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STADIA SURVEY NOTES

AREA NPRAA STATE or PROVINCE Alaska PAGE No. 7
 LINE No.(s) B-1 PARTY No. 1182 DATE 16 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D. HELANDER RODMAN G. Myers WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD.			
1												33.5				
2																
3	NE	2640	/						9.0	8.9	8.9	42.4		Δ		
4		✓		270°00'					9.6					✓		
5		1760	/						10.7			31.7			181	
6		880	/						7.9			34.5			182	
7		0	/						5.3			37.1			183	
8	SW	880	/						5.8			36.6			184	
9		1760	/						5.6			36.8			185	
10		2640	/						5.7	5.6	5.5	36.9	0		186	
11		✓		270°00'					5.6					✓		
12																
13	NE	2640	/						9.9	9.8	9.8	46.6		Δ		
14		✓		270°					9.9					✓		
15		1760	/						9.2			37.4			187	
16		880	/						8.3			38.3			188	
17		0	/						5.3			41.3			189	
18	SW	880	/		89°21'3"				5.0	3.2	3.1	49.8	0		190	
19		✓		270°31'44"					5.0			41.6	✓		191	
20																

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 8
 LINE No.(s) B-1 PARTY No. 1182 DATE 16 Day 5 Mo. 78 Yr. BOOK No.
 SURVEYOR D. HELANDER RODMAN G. Myers WEATHER; Clear P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	NE	2640	✓			T	12.7			0.6	0.7	42.1		Δ		
3		✓		270°10'										✓		
4		1760	✓										44.1		191	
5		880	✓										43.1		192	
6		0	✓										43.8		193	
7	SW	880	✓										43.9		194	
8		1760	✓										43.0		195	
9		2640	✓							5.9	5.9		43.2	⊙	196	
10		✓		270°00'										✓		
11																
12	NE	1760	✓	90°02'17"						15.1	15.1	58.3		Δ		
13		✓		269°57'44"										✓		
14		880	✓										44.3		197	
15		0	✓										53.0		198	
16	SW	880	✓	90°39'39"									48.3		199	36.
17		1760	✓			B	11.9	8.8			20.7		37.6		200	
18		2640	✓			B	8.4	13.2		21.5	21.4		36.9	⊙	201	
19		✓		269°50'										✓		
20																

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D.A.

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B.M.

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STADIA SURVEY NOTES

AREA NPR # 4 STATE or PROVINCE Alaska PAGE No. 9
 LINE No.(s) B-1 PARTY No. 1182 DATE 16 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D Helander RODMAN G. Myers WEATHER: clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	NE	2640	/					7.5	7.4	7.4	44.2			Δ		
3			/	270°00'				7.5						√		
4		1760	/					6.7				37.5			202	
5		880	/					5.7				38.5			203	
6		0	/					5.3				38.9			204	
7	SW	880	/					5.1				39.1			205	
8		1760	/					5.2				39.0			206	
9		2640	/				T	14.5		1.2	1.1	43.1	0		207	
10			/	270°10'				8.9						√		
11			/													
12	NE	2640	/				T	9.0		4.3	4.4	38.7		Δ		
13			/	270°20'				11.1						√		
14		1760	/					4.9				33.8			208	
15		880	/					5.8				32.9			209	
16		0	/					5.3				33.4			210	
17	SW	880	/					5.1				33.6			211	
18		1760	/				T	14.7	8.8	5.6	5.6	33.1			212	
19		2640	/					7.1		7.0	6.9	31.8	0		213	
20			/	270°00'				7.0						√		

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE ALASKA PAGE No. 10
 LINE No.(s) B-1 PARTY No. 1182 DATE 17 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D. Helander RODMAN D. MAY WEATHER: clear P.T.S: No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD		
1															
2	NE	880	/						6.4	6.4	6.4	38.2			△
3		✓		270°00'					6.4						✓
4		0	/						5.3			32.9		214	
5	SW	880	/						6.4			31.8		215	
6		1760	/						7.2			31.0		216	
7		2640	/						3.6	3.5	3.4	34.8		217	○
8		✓		270°00'					3.5						✓
9															
10	NE	2640	/						9.0	8.9	8.9	43.7			△
11		✓		270°00'					9.1						✓
12		1760	/						9.8			43.9		218	
13		880	/						7.9			35.8		219	
14		0	/						6.0			37.7		220	
15	SW	880	/						8.9	8.9	8.9	34.8		221	○
16		1760	/	270°00'					8.9						✓
17		2640	/												
18	NE	1760	/	89°00'					4.1	26.7	26.6	8.2			△
19		1760	/	271°00'					4.2						✓
20															

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 11
 LINE No.(s) B-1 PARTY No. 1182 DATE 17 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D Helander RODMAN D. May WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲ B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												8.2				
2		880	/	271°00'				6.2					2.0		222	
3		0						6.0					2.2		223	
4	SW	880	/					5.4					2.8		224	
5		1760	/	89°20'				7.5					0.1		225	19.
6		2640	/	89°20'				9.3	21.6	21.6			29.8	0	226	
7				270°10'				9.3						✓		
8																
9	NE	2640	/					1.6	1.5	1.5	31.2			Δ		
10				270°00'				1.6						✓		
11		1760	/					4.2					27.0		227	
12		880	/					5.3					35.9		228	
13		0						6.0					35.2		229	
14	SW	880	/					3.5					27.7		230	
15		1760	/					T 7.6	8.8		-1.2	+1.2	32.4		231	
16		2640	/					T 13.5			0.2	0.0	31.2	0	232	
17				270°10'				7.7						✓		
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR # 4 STATE or PROVINCE Alaska PAGE No. 12
 LINE No.(s) B-1 PARTY No. 1182 DATE 17 Day 5 Mo. 28 Yr. BOOK No. _____
 SURVEYOR D Helander RODMAN D May WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion.	Center Hair			INST.	ROD		
1												31.2			
2	NE	2640		89°50'				8.6	0.8	0.8	32.0		▲		
3		✓		270°10'				8.6					✓		
4		1760	✓					5.1				36.9		233	
5		880	✓					6.0				36.0		234	
6		0	✓					6.0				36.0		235	
7	SW	880	✓			B	10.3	44		14.7		17.3		236	
8		1760	✓					12.6				19.4		237	
9		2640	✓					1.7	1.6	1.6		30.4	⊙	238	
10		✓		270°00'				1.7					✓		
11															
12	NE	1760	✓			T	10.6			1.7	1.8	32.2		▲	
13		✓		270°10'				3.0						✓	
14		880	✓					2.6				29.6		239	
15		0	✓					6.0				36.2		240	
16	SW	880	✓					4.3				27.9		241	
17		1769	✓					6.0	5.9	5.9		26.3	⊙	242	
18		✓		270°00'				6.0					✓	243	
19															
20															

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 19
 LINE No.(s) B-1 PARTY No. 1182 DATE 18 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D. Nelander RODMAN G. Myers WEATHER: Foggy 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	NE	1760	✓						8.5	8.4	8.4	34.7	26.3	Δ	
3				270°00'					8.5					✓	
4		880	✓			B	11.3	4.4			15.7		19.0		243
5		0							6.0				28.7	✓	244
6	SW	880	✓						8.1				32.6		245
7		1760	✓						10.1	10.0	10.0		24.7	0	246
8			✓	270°00'					10.1					✓	
9															
10	NE	1760	✓						6.3	6.2	6.3	31.0		Δ	
11			✓	270°00'					6.4					✓	
12		880	✓						6.1				34.9		247
13		0							6.0				35.0		248
14	SW	880	✓						5.4				35.6		249
15		1760	✓						5.9	5.8	5.9		25.1	0	250
16			✓	270°00'					6.0					✓	
17															
18	NE	2640	✓						9.3	9.2	9.2	34.3		Δ	
19			✓	270°00'					9.3					✓	
20															

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 14
 LINE No.(s) B-1 PARTY No. 1182 DATE 17 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D Helander RODMAN G. Myers WEATHER: Foggy 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												34.3			
2		1760 ✓										21.5		251	
3		880 ✓										22.2		252	
4		0										28.3		253	
5	SW	880 ✓										31.9		254	
6		1760 ✓				T	8.0	8.8		0.8	-0.8	35.1		255	
7		2640 ✓				T	13.4			0.7	0.0	34.2	0	256	
8		✓		270°10'										✓	
9															
10	NE	2640 ✓								8.1	8.1	42.3		Δ	
11		✓		270°00'										✓	
12		1760 ✓										33.0		257	
13		880 ✓				B	14.7	4.4			10.3	32.0		258	
14		0										36.3		259	
15	SW	880 ✓										34.9		260	
16		1760 ✓				B	10.3	8.8			-19.1	23.2		261	
17		2640 ✓		90°19'15"						29.2	29.2	13.1	0	262	
18		✓		269°10'52"										✓	
19															
20															

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2nd

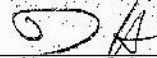
STADIA SURVEY NOTES

AREA NPR# 4 STATE or PROVINCE Alaska PAGE No. 15
 LINE No.(s) B-1 PARTY No. 1182 DATE 18 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D. Helander RODMAN G. Myers WEATHER: Fog P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD				
1																	
2	NE	880		91°04'42"					10.0	26.5	26.5	39.6	13.1	Δ			
3		✓		268°55'12"					10.0					✓			
4		0							6.0				33.6		263		
5	SW	880	✓						6.6				33.0		264		
6		1760	✓						6.4				33.2		265		
7		2640	✓						5.3	5.2	5.2		34.5	○	266		
8		✓		270°00'					5.3					✓			
9																	
10	NE	2640	✓						9.1	9.0	9.0	43.4		Δ			
11		✓		270°00'					9.1					✓			
12		1760	✓						9.6				33.8		267		
13		880	✓						6.5				36.9		268		
14		0							6.0				37.4		269		
15	SW	880	✓						6.7				36.7		270		
16		1760	✓						6.7				36.7		271		
17		2640	✓						6.0	5.9	5.9		37.6	○	272		
18		✓		270°00'					6.0					✓			
19																	
20																	

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 16
 LINE No.(s) B-1 PARTY No. 1182 DATE 18 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D. Helander RODMAN G. Myers WEATHER: Fog 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												37.6				
2	NE	2640		89°50'				9.3	1.5	1.5	39.1		Δ			
3		✓		270°10'				9.3					✓			
4		1760	✓					1.8				37.3		273		
5		880	✓					5.4				33.7		274		
6		0						6.0				33.1		275		
7	SW	880	✓				T	0.9	4.4		-3.5	42.6		276		
8		1760	✓	89°20'				10.3	10.2			49.3		277		
9		2640	✓	89°29'10"				14.0	9.8	19.8		48.9	○	278		
10		✓		270°30'47"				14.0					✓			
11																
12	NE	2640	✓				T	11.8					Δ			
13		✓		270°10'				6.0					✓			
14		1760	✓				T	8.0			0.9	48.1		279		
15		880	✓					1.1				46.1		280		
16		0						6.0				41.2		281		
17	SW	880	✓	91°20'				13.7			34.2	13.0		282		
18		1760	✓				B	9.6			18.3	28.9		283		
19		2640	✓					3.8	3.7	3.7		43.5	○	284		
20		✓		270°00'				3.9					✓			

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STADIA SURVEY NOTES

AREA NPR # 4 STATE or PROVINCE Alaska PAGE No. 17
 LINE No. (s) L-131 PARTY No. 1182 DATE 18 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D. Helander RODMAN G Myers WEATHER: Fog P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	NE	1760							12.5	12.4	12.4	55.9	43.5	Δ		
3		✓		270°00'					12.5					✓		
4		880							9.1				46.8		285	
5		0							5.6				50.3		286	
6	SW	880							6.6				49.3		287	
7		1760							10.9				45.0		288	
8		2640		90°40'03"					14.8	25.4	25.4		30.5	○	289	
9		✓		269°46'03"					14.8					✓		
10																
11	NE	1860												Δ		
12		✓		270°20'										✓		
13		995							13.0				10.2		290	
14		110							5.8				17.4		291	
15	SW	770							11.8				11.4		292	
16		1650									16.8		6.4		293	
17		2530											21.4	○	294	
18		✓		270°10'										✓		
19									9.5	1.7	1.9					
20																

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J.M.

2nd

STADIA SURVEY NOTES

AREA NPR#4 STATE or PROVINCE Alaska PAGE No. 18
 LINE No.(s) B-1 PARTY No. 1182 DATE 18 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D. Helander RODMAN G Myers WEATHER: clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD		
1															
2	NE	1760	✓			B	12.0			20.7	20.7	42.0	21.4		
3			✓	269°44'58"									13.0		✓
4		880	✓										7.1		
5		0	✓										6.0		34.9
6	SW	880	✓										5.1		36.0
7		1760	✓										6.1		36.9
8		2640	✓										6.1	6.1	35.9
9			✓	270°00'									6.2		36.0
10													6.2		0
11	NE	2640	✓										6.1	6.1	299
12			✓	270°00'									10.0		✓
13		1760	✓										9.3		36.5
14		880	✓										7.5		300
15		0	✓										6.0		38.3
16	SW	880	✓										5.9		301
17		1760	✓										7.8		398
18		2640	✓										8.2	8.1	39.9
19			✓	270°00'									8.2		302
20													8.2		303
													8.2	8.1	37.7
													8.2		0
													8.2		305

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J.M.

2nd

STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 19
 LINE No. (s) B-1 PARTY No. 1182 DATE 18 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D. Helander RODMAN G. Myers WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1																
2	NE	2640	/			B	7.9			21.0	20.9	58.6		Δ		
3		✓		269°50					13.3					✓		
4		1760	/	269°50					14.2		19.3		39.4		306	
5		880	/						7.5				51.1		307	
6		0	/						6.0				52.6		308	
7	E	1580	/			T	2.6			5.4	5.3		64.0	○	Δ HUMP (HORIZONTAL	
8		✓		270°20					3.9					✓		CONTROL DATA IN
9																ERROR: TRI STATION
10																HAD NO ELEVATION
11	E	1160	/	89°00					11.7	8.6	8.6	55.4		Δ		HOWEVER SETUP
12		✓		271°00					11.6		0.2			✓		IS NEEDED FOR
13	NE	880	/	270°36					7.9				55.2		309	COMPLETION OR
14		0	/						6.0				49.4		310	TRAVERSE)
15	SW	880	/			B	13.2				17.6		37.8		311	
16		1760	/			B	9.3				18.0		37.3		312	
17		2690	/			B	2.6			15.7	15.6		39.8	○	313	
18		✓		269°50					8.0					✓		
19																
20																

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STADIA SURVEY NOTES

AREA NPR#4 STATE or PROVINCE Alaska PAGE No. 20
 LINE No.(s) B-1 PARTY No. 1182 DATE 18 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D Nelander RODMAN G Myers WEATHER: clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.		
1														
2	NE	2640	/					3.7	3.6	3.6	43.3	39.8		
3		/		270°00'				3.7						
4		1760	/					2.6			41.7		314	
5		880	/					3.4			39.9		315	
6		0	/					6.0			37.3		316	
7	SW	880	/					2.5			41.8		317	
8		1760	/			T	9.9			1.0	42.3		318	
9		2640	/	89°40'				2.6	12.9	13.0	56.3		319	
10		/		278°20'				2.5						
11														
12	E	1570	/			T	2.4		6.6	6.6	50.8			
13		/		270°20'				3.7						
14														
15	W	1135	/					8.9	8.9	8.8	42.0			
16		/		270°00'				8.8						
17														
18	E	345	/					2.9	2.9	2.9	44.9			
19		/		270°00'				2.9						
20														

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STADIA SURVEY NOTES

AREA NPR # 4 STATE or PROVINCE Alaska PAGE No. 21
 LINE No.(s) B-1 PARTY No. 1182 DATE 19 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D. Helander RODMAN G. Myers WEATHER: cloudy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2	W	480		93° 50'				13.4		45.5	45.5		-0.6	○	TIE TO OCEAN ICE
3		✓		266° 10'				13.4						✓	AT SEA LEVEL
4															
5															
6		Elevations TAKEOFF SP 319											56.3		
7	NE	2640								5.5	5.5	50.8		Δ	
8		✓		270° 20'				10.0						✓	
9		1760						2.8				98.0			320
10		880						5.8				45.0			321
11		0						6.0				44.8			322
12	SW	880		89° 20'				3.8	6.5	6.5		57.2	○		323
13		✓		270° 40'				3.8						✓	
14															
15	NE	2640		89° 30'				13.2	10.0	9.9	47.3			Δ	
16		✓		270° 30'				13.3						✓	
17		1760		270° 20'				4.3		6.0		53.3			324
18		880						3.3				44.0			325
19		0						6.0				41.3			326
20															

TI-558B

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 22
 LINE No. (s) B-1 PARTY No. 1182 DATE 19 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D Helander RODMAN G Myers WEATHER: cloudy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												47.3			
2	SW	880	/						10.0			37.3		327	
3		1760	/						5.9			41.4		328	
4		2640	/			T	3.9			9.4	9.4	56.7	0	329	
5		✓		270°20'					6.1					✓	
6															
7	NE	2640	/						13.2	13.1	13.1	69.8		Δ	
8		✓		270°00'					13.2					✓	
9		1760	/						9.6			60.2		330	
10		880	/						7.2			62.6		331	
11		0	/						6.0			63.8		332	
12	SW	880	/						3.7			66.1		333	
13		1760	/						2.9			66.9		334	
14		2640	/			T	14.9			1.6	1.5	68.3	0	335	
15		✓		270°10'					9.3					✓	
16															
17	NE	1760	/						2.1	2.0	1.9	70.2		Δ	
18		✓		270°00'					2.0					✓	
19															
20															

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 23
 LINE No.(s) B-1 PARTY No. 1182 DATE 19 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D Helander RODMAN S. Myers WEATHER: cloudy 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												70.2				
2		880	/										66.6		336	
3		0	/										64.2		337	
4	SW	880	/										57.8		338	
5		1760	/	90° 30'									57.2		339	60.
6		2640	/			B	12.6			25.7	25.6		44.5	0	340	
7		✓		269° 40'										✓		
8																
9	NE	2640	/	90° 25' 31"						30.5	30.4	74.9		Δ		
10		✓		269° 34' 40"										✓		
11		1760	/			B	8.5				17.2		57.6		341	
12		880	/										66.3		342	
13		0	/										68.9		343	
14	SW	880	/										73.0		344	
15		1760	/			T	8.7				0.2		75.0		345	
16		2640	/			T	12.9			0.4	0.5		75.4	0	346	
17		✓		270° 10'										✓		
18																
19	NE	1760	/	89° 40'						1.7	1.8	73.7		Δ		
20		✓		270° 20'										✓		

TI-588B

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2nd _____

STADIA SURVEY NOTES

AREA NPR#4 STATE or PROVINCE Alaska PAGE No. 24
 LINE No.(s) B-1 PARTY No. 1182 DATE 19 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D Helander RODMAN G. Myers WEATHER: cloudy 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												73.7				
2		880	/			T	2.9				1.5	75.2		347		
3		0						6.0				67.7		348		
4	SW	880	/	90°50'				11.8		24.6		42.7		349		
5		1760	/	90°50'				19.9	35.4	35.4		38.3	⊙	350		
6		✓		269°10'				9.8					✓			
7																
8	NE	2640	/	90°20'				5.3	20.5	20.5	58.8		Δ			
9		✓		269°40'				5.3					✓			
10		1760	/	269°20'				18.5		38.9		19.9		351		
11		880	/					13.0				45.8		352		
12		0						6.0				52.8		353		
13	SW	880	/					8.4				50.4		354		
14		1760	/					8.2				50.6		355		
15		2640	/					7.3	7.2	7.1		51.7	⊙	356		
16		✓		270°00'				7.2					✓			
17																
18	NR	2640	/					6.8	6.7	6.6	58.3		Δ			
19		✓		270°00'				6.7					✓			
20																

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 25
 LINE No.(s) B-1 PARTY No. 1182 DATE 19 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D Helander RODMAN G Myers WEATHER: cloudy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle of Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1												58.3				
2		1760	/						5.2				53.1		357	
3		880	/						5.0				53.3		358	
4		0							6.0				52.3		359	
5	SW	880	/						5.5				52.8		360	
6		1760	/						8.3				50.0		361	
7		2640	/						9.1	9.0	8.9		49.5	⊙	362	
8			/	270°00'					8.9					✓		
9																
10	NE	1760	/						8.3	8.2	8.2	57.6		Δ		
11			/	270°00'					8.2					✓		
12		880	/	268°58'24"					14.8		30.6		27.1		363	
13		0							6.0				51.6		364	
14	SW	880	/						9.9				47.7		365	
15		1760	/						8.8				48.8		366	
16		2640	/						6.7	6.6	6.6		51.0	⊙	367	
17			/	270°00'					6.8					✓		
18																
19	NE	3520	/	90°10'					7.9	17.9	17.9	68.9		Δ		
20			/	269°30'					7.9					✓		

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 26
 LINE No.(s) B-1 PARTY No. 1182 DATE 19 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D Helander RODMAN G Myers WEATHER: cloudy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												68.9				
2		2640	/			B	57.7				18.8	50.2		368		
3		1760	/			B	11.2				19.9	49.0		369		
4		880	/			B	14.1				18.5	50.4		370		
5		0							6.0			62.9		371		
6	SW	880	/						5.3			63.6		372		
7		1760	/						4.3			64.6		373		
8		2640	/						7.3	7.2	7.2	61.8	⊙	374		
9		✓		270°00'					7.3				✓			
10																
11																
12	SW	2640							7.3	7.2	7.2	69.0	Δ			
13		✓		270°00'					7.3				✓			
14																
15	W	1800	/						13.2	13.1	13.1	55.8	⊙			
16		✓		270°00'					13.2				✓			
17																
18	E	1480	/						5.0	24.6	24.6	31.2	Δ			
19		✓		271°08'42"					5.0				✓			
20																

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 26
 LINE No.(s) B-1 PARTY No. 1182 DATE: 20 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D Helander RODMAN G Myers WEATHER: Cloudy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	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				INST.	ROD			
1																
2	NE	2640	✓			T	5.4	5.4	7.7	7.8	54.0	61.8	△			
3			✓	270°20'				7.8					✓			
4		1760	✓			T	2.0			6.9		60.8		375		
5		880	✓					2.9				51.1		376		
6		0	✓					6.0				48.0		377		
7	SW	880	✓	90°50'				12.7				41.3		878	26	
8		1760	✓					1.8				52.2		379		
9		2640	✓	89°50'				11.2	3.4	3.4		50.8	○	380		
10			✓	270°10'				11.3					✓			
11																
12	NE	2640	✓	90°10'				7.9	15.4	15.5	66.0		△			
13			✓	269°56'				8.0					✓			
14		1760	✓					12.0				54.0		381		
15		880	✓					4.8				61.2		382		
16		0	✓					6.0				60.0		383		
17	SW	880	✓					10.5				55.5		384		
18		1760	✓					10.6				55.4		385		
19		2100	✓					9.4				56.6	○	Iron Pipe	SP 287 L-6.5	
20													✓			G-182 76

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Jm

2nd

STADIA SURVEY NOTES

AREA NPR # 4 STATE or PROVINCE Alaska PAGE No. 27
 LINE No.(s) B-1 PARTY No. 1182 DATE 20 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D Helander RODMAN G Myers WEATHER: cloudy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												66.0			
2		2640	✓					9.2	9.1	9.1		56.9	○	386	
3		✓		270° 00'				9.3					✓		
4															
5	NE	2640	✓	89° 58' 01"				13.0	11.3	11.3		68.3	△		
6		✓		270° 02' 00"				13.0					✓		
7		1760	✓					17.6				50.7		387	
8		880	✓					3.5				64.8		388	
9		0						6.0				62.3		389	
10	SW	880	✓					8.3				60.0		390	
11		1760	✓					4.3				69.0		391	
12		2640	✓					6.0	5.9	5.9		62.4	○	392	
13		✓		270° 00'				6.0					✓		
14															
15	NE	3520	✓					7.6	7.3	7.3		69.7	△		
16		✓		270° 00'				7.5							
17		2640	✓					6.8				62.9		393	
18		1760	✓					7.2				62.5		394	
19		880	✓					4.8				64.7		395	
20		0						6.0				62.7		396	

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 27
 LINE No.(s) B-1 PARTY No. 1182 DATE 19 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D Helander RODMAN G Myers WEATHER: cloudy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2	<u>-W</u>	<u>510</u>		<u>92°10'</u>					<u>11.6</u>	<u>30.9</u>	<u>30.9</u>		<u>0.3</u>	<u>○</u>	<u>TIE TO OCEAN</u>
3		<u>✓</u>		<u>267°50'</u>					<u>11.6</u>					<u>✓</u>	<u>ICE - SEA LEVEL</u>
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA NPR #4 STATE or PROVINCE Alaska PAGE No. 28
 LINE No. (s) B-1 PARTY No. 1182 DATE 20 Day 5 Mo. 78 Yr. BOOK No. _____
 SURVEYOR D. Helander RODMAN G. Myers WEATHER: cloudy P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲ B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												69.7				
2	<u>SW</u>	<u>890</u>	✓						<u>6.2</u>				<u>63.5</u>		387	<u>397</u>
3		<u>1650</u>							<u>7.0</u>				<u>62.7</u>		<u>754</u>	
4		<u>2530</u>							<u>8.4</u>				<u>61.3</u>		<u>8</u>	
5		<u>3410</u>							<u>11.7</u>				<u>58.0</u>		<u>16</u>	
6		<u>4290</u>							<u>12.4</u>				<u>57.3</u>		<u>20</u>	
7		<u>5170</u>							<u>14.2</u>				<u>55.5</u>		<u>24</u>	
8	<u>W</u>	<u>1600</u>	✓						<u>6.5</u>	<u>6.4</u>	<u>6.4</u>		<u>63.3</u>	⊙		
9		✓		<u>270°00'</u>					<u>6.4</u>					✓		
10																
11	<u>E</u>	<u>2060</u>	✓				<u>B</u>	<u>6.7</u>		<u>16.9</u>	<u>16.9</u>	<u>80.2</u>		Δ		
12		✓		<u>269°50'</u>					<u>10.9</u>					✓		
13	<u>W</u>	<u>965</u>	✓						<u>7.1</u>	<u>7.1</u>	<u>7.0</u>		<u>73.1</u>	⊙		
14		✓		<u>270°00'</u>					<u>7.0</u>					✓		
15																
16	<u>E</u>	<u>450</u>	✓						<u>4.3</u>	<u>4.3</u>	<u>4.2</u>	<u>77.4</u>		Δ		
17		✓		<u>270°00'</u>					<u>4.2</u>					✓		
18	<u>W</u>	<u>380</u>	✓		<u>99°50'</u>				<u>12.6</u>	<u>77.5</u>	<u>77.4</u>		<u>-0.1</u>	⊙	<u>TIE TO OCEAN ICE</u>	
19		✓		<u>260°10'</u>					<u>12.5</u>					✓	<u>SEA LEVEL</u>	
20																

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