

STADIA SURVEY NOTES

AREA IPNAVIK RIVER STATE or PROVINCE ALASKA PAGE No. 1
 LINE No.(s) 107 PARTY No. 1184 DATE 9 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W D HELANDER RODMAN D JENSEN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2															
3	N	2640		90-21-51					46.19			1284.6			
4	"	2640		269-37-38						26.8	+27.0	1311.6		Δ	
5	E	2640	✓							10.0				Δ	
6	"	1760		90-12-26						1.7	-1.7	1309.9		-	101
7	"	880		90-17-40						4.0	-10.4	1301.2		-	102
8		0								4.0	-8.5	1303.1		-	103
9	W	880	✓							4.0	-5.9	1305.7		-	104
10	"	1760	✓							5.9	-4.0	1307.6		-	105
11	"	2640	✓							4.0	-4.1	1307.5		-	106
12	"	2640	✓							6.5	-6.5	1305.1	0		1305.4
13	E	2640		89-55-20						10.0	-6.4			0	
14	"	2640		89-31-15						10.0	-12.1	-11.9	1293.2		Δ
15	"	1760		270-28-12						10.0	-11.7				Δ
16	"	880	✓	89-31-28						4.0	+10.6	1303.8		-	108
17		0								6.5	-6.5	1286.7		-	109
18	W	880	✓							5.8	-5.8	1287.4		-	110
19	"	1760	✓							4.1	-3.1	1290.1		-	111
20										12.1	-12.1	1281.1		-	112

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STADIA SURVEY NOTES

AREA IPNAVIK RIVER STATE or PROVINCE ALASKA PAGE No. 2
 LINE No.(s) 107 PARTY No. 1184 DATE 10 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D JENSEN 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												1293.2			
2															
3	W	2640	✓					10.5		-10.5		1282.7	0	113	1283.3
4	"	2640		89-55-25				14.0		-10.5			0		
5	E	2970		90-32-51				14.0	42.4	+42.4	1325.1		Δ		
6	"	2970		269-27-14				14.0	42.3				Δ		
7	"	2090		90-55-00				4.0		-37.4		1287.7	-	114	
8	"	1210		91-21-21				4.0		-32.6		1292.5	-	115	
9	"	330										1292.5	-	116	ON RIVER SAME
10	"	0												116-2	π
11	W	550		88-58-40				4.0		+5.8		1330.9	-	117	
12	"	1430		88-20-13				5.0	+36.5	+36.4		1361.5	0	118	1362.4
13	"	1430		271-39-22				5.0	36.3				0		
14	E	1650		90-30-10				14.0	28.5	+28.5	1390.0		Δ		
15	"	1650		269-29-30				14.0	28.6				Δ		
16	"	770		91-21-07				4.0		-22.2		1367.8	-	119	
17														119-4	
18	W	110		91-56-00				4.0		-7.7		1382.3	-	120	
19	"	990		90-28-14				4.0		-12.1		1377.9	-	121	
20	"	1870		90-14-44				4.0		-12.0		1378.0	-	122	

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STADIA SURVEY NOTES

AREA IPNAVIK RIVER STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) 107 PARTY No. 1184 DATE 10 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W D HELANDER RODMAN D JENSEN 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	Correction			Center Hair	INST.		
1											1390.0			
2														
3	W	2750	✓					6.9	-6.9		1383.1	0	123	1384.3
4	"	2750		70-02-21				5.0	-6.9			0.		
5	E	2640		91-14-00				14.0	70.8	+71.1	1454.2	Δ		
6	"	2640		268-45-13				14.0	71.4			Δ		
7	"	1760		91-51-11				4.0		-60.9	1393.3	-	124	
8	"	880		92-14-47				4.0		-38.5	1415.7	-	125	
9		0								-5.9	1448.3		126	π
10	W	880		88-08-35				4.0		+24.5	1478.7	-	127	
11	✓	1760		88-01-45				5.0	55.5	+55.5	1509.7	0	128	1511.1
12	"	1760		271-58-16				5.0	55.5			0.		
13	E	2640		70-23-05				14.0	31.7	+31.8	1541.5	Δ		
14	"	2640		269-36-32				14.0	32.0			Δ		
15	"	1760		70-32-13				4.0		-20.5	1521.0	-	129	
16	"	880		90-28-46				4.0		-11.4	1530.1	-	130	
17		0								-2.9	1535.6		131	π
18	W	880	✓					4.3		-4.3	1537.2	-	132	
19	"	1760		89-42-45				4.0		+4.8	1546.3	-	133	
20														

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STADIA SURVEY NOTES

AREA CULA CREEK STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 107 PARTY No. 1184 DATE 10 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D JENSEN 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. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1												1541.5				
2																
3	W	2640		89-41-30				5.0	9.2	+9.1		1550.6	○	134	1552.3	
4	"	2640		270-18-08				5.0	8.9				○			
5	E	2310		89-36-05				14.0	-2.1	-2.0	1548.6		△			
6	"	2310		270-23-38				14.0	-1.9				△			
7	"	1430		89-39-00				4.0		+4.7		1553.3	-	135		
8	"	550		89-27-50				4.0		+1.1		1549.7	-	136		
9		0						-5.8		-5.8		1542.8		136-3	π	
10	W	330		90-16-31				14.0		-15.6		1533.0	-	137		
11	"	1210		91-59-45				14.0		-56.1		1492.5	-	138		
12	"	2090		91-59-07				14.0		-86.4		1462.2	-	139		
13	"	2970		91-56-10				14.0	-114.3	-114.5		1434.1	○	140	1436.1	
14	"	2970		268-03-33				14.0	-114.6				○			
15	E	2090		89-32-00				10.0	-7.0	-7.0	1427.1		△			
16	"	2090		270-28-05				10.0	-7.1				△			
17	"	1210		90-28-05				14.0		-23.9		1403.2	-	141		
18	"	330		90-23-45				4.0		-6.3		1420.8	-	142		
19		0						-5.8		-5.8		1421.3		142-2	π	
20																

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STADIA SURVEY NOTES

AREA CULA CREEK STATE or PROVINCE ALASKA PAGE No. 50
 LINE No.(s) 107 PARTY No. 1184 DATE 11 Day H Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D JENSEN 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		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD		
1											1422.1				
2															
3	W	550		91-38-22				4.0		-19.7	1407.4	-	143		
4	"	1430		90-54-45				4.0		-26.8	1400.3	-	144		
5	"	2310		90-13-50				14.0	-23.3	-23.4	1403.7	0	145	1406.0	
6	"	2310		269-45-44				14.0	-23.6			0			
7	E	3190		90-24-34				10.0	32.8	+33.1	1436.8				
8	"	3190		269-34-50				10.0	33.4						
9	"	2310		90-58-15				4.0		-43.1	1393.7	-	146		
10	"	1430		91-22-40				4.0		-38.7	1398.4	-	147		
11	"	550		93-22-35				4.0		-36.4	1400.4	-	148		
12		0						-5.8		-5.8	1431.0		148.3	^	
13	W	330		89-40-30				4.0		-2.1	1434.7	-	149		
14	"	1210		89-39-05				4.0		+3.4	1440.2	-	150		
15	"	2090		89-17-15				10.0	16.0	+15.9	1452.7	0	151	1455.3	
16	"	2090		270-42-18				10.0	15.7			0			
17	"	2640		89-40-15				10.0	-5.2	-5.0	1447.7				
18	"	2640		270-19-25				10.0	-4.9						
19	"	1760		90-65-20				4.0		-6.7	1441.0	-	152		
20		880	✓					4.0	7.5	-7.5	1440.2	-	153		

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STADIA SURVEY NOTES

AREA CULA CREEK STATE or PROVINCE: ALASKA PAGE No. 6
 LINE No.(s) 107 PARTY No. 1184 DATE 11 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D JENSEN 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												1442.7			
2															
3		0						H1	5.8		-5.8	1441.9	154	π	
4	W	880	✓						1.6		-1.6	1446.1	-	155	
5	"	1760		89-17-55					4.0		+17.5	1465.2	-	156	
6	"	2090		89-16-20					5.0	21.5	+21.5	1469.2	0	156-2	1472.1
7	"	2090		70-43-30					5.0	21.4			0		
8	E	3520		90-25-44					10.0	36.3	+36.5	1505.7	0		
9	"	3520		269-33-53					10.0	36.7			Δ		
10	"	2970		90-35-11					4.0		-34.4	1471.3	-	157	
11	"	2090		90-42-00					4.0		-29.5	1476.2	-	158	
12	"	1210		90-58-33					4.0		-24.6	1481.1	-	159	
13	"	330		91-41-00					4.0		-13.7	1392.0	-	160	1492.0
14		0												1602	π
15	W	550		90-37-35					4.0		-10.0	1495.7	-	161	
16	"	1430		90-41-16					10.0	-27.2	-27.2	1478.5	0	162	1481.7
17	"	1430		269-18-26					10.0	-27.3			0		
18	E	3190		89-33-08					5.0	-19.9	-20.0	1458.5	Δ		
19	"	3190		270-21-00					5.0	-20.1			Δ		
20															

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STADIA SURVEY NOTES

AREA CULA CREEK STATE or PROVINCE ALASKA PAGE No. 7
 LINE No.(s) 107 PARTY No. 1184 DATE 11 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN D. JENSEN 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		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD		
1												1458.5			
2			✓												
3	E	2310	✓					3.0		-3.0		1455.5	- 163		
4	"	1430		91-05-11				4.0		-31.1		1437.4	- 164	MARKER PIPE	
5	"	550		91-52-00				4.0		-21.9		1436.6	- 165		
6		0											165.3	X	
7	W	330		90-48-40				4.0		-8.7		1449.8	- 166		
8	"	1210		90-44-08				14.0	-29.5	-29.6		1428.9	0	167 1432.4	
9	"	1210		269-15-33				14.0	-29.6				0		
10	E	2640		89-09-35				10.0	-28.7	-28.3	1400.6		Δ		
11	"	2640		270-49-25				10.0	-27.9				Δ		
12	"	1760		89-47-15				4.0		+2.5		1403.1	- 168		
13	"	880		89-42-00				4.0		+0.6		1401.2	- 169		
14		0						-5.8		-5.8		1394.8	- 170		
15	W	880		90-57-25				8.0		-22.7		1377.9	- 171		
16	"	1760	✓					14.0		-14.0		1385.6	- 172	1386.6	
17	"	2640		90-07-15				14.0	-19.6	-19.7		1380.9	0	173 1384.7	
18	"	2640		269-52-22				14.0	-19.9				0		
19	E	2640		90-11-11				10.0	18.6	+19.7	1399.6		Δ		
20	"	2640		269-48-26				10.0	18.9				0		

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STADIA SURVEY NOTES

AREA LOST TEMPER CREEK STATE or PROVINCE ALASKA PAGE No. 8
 LINE No.(s) 107 PARTY No. 1184 DATE 11 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN D. JENSEN 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												1399.6				
2																
3	E	1760		90-29-00				10.0		-24.8		1374.8	-	174		
4		880		90-29-20				4.0		-11.5		1388.1	-	175		
5		0						HI 5.8		-5.8		1393.8		176	X	
6	W	880		90-44-20				4.0		-15.3		1384.5	-	177		
7		1760		90-40-20				14.0	-34.6	-34.8		1364.8	0	178	1368.8	
8		1760		269-19-00				14.0	-35.0				0			
9	E	1760		89-09-22				5.0	-20.9	-20.8	1344.0		Δ			
10		1760		270-50-11				5.0	-20.7				Δ			
11		880		89-26-00				4.0		+4.7		1348.7	-	179		
12		0						HI 5.8		-5.8		1338.2		180	X	
13	N	1070		87-19-25				1.0	48.0	+48.9		1392.9	0	BAS	4913	
14		1070		272-40-25				1.0	48.9			1397.1	0	elev.	4913	1397.1
15												-4.2		ver.	mistie	
16																
17																
18																
19																
20																

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11.7
11.0
10.7

STADIA SURVEY NOTES

AREA LOST TEMPER CREEK STATE or PROVINCE ALASKA PAGE No. 9
 LINE No.(s) 107 PARTY No. 1184 DATE 12 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D JENSEN 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 4913							1397.1			
2														
3	N	1070		87-19-25			1.0	-49.0	-48.9	1348.2		Δ		
4	"	1070		272-40-25			1.0	-48.9				Δ		
5		0					H1	5.8	-5.8	1342.4		180	π	
6	W	880		90-25-00			5.0		-11.4	1336.8		181		
7	"	1760	✓				8.8		-8.8	1339.4		182		
8	"	2640		90-06-44			10.0	-15.2	-15.2	1333.0	0	183		
9	"	2640		269-53-05			10.0	-15.3			0			
10	E	3410		92-07-00			14.0	139.9	+140.0	1473.0		Δ		
11	"	3410		267-32-48			14.0	140.1				Δ		
12	"	2530		93-01-50			28.0		-156.8	1316.2		184		
13	"	1650		92-52-50			4.0		-86.9	1326.1		185		
14	"	770		92-49-55			10.0		-48.0	1425.0		186		
15		0										186-4	π	
16	W	110		93-59-50			4.0		-11.7	1461.3		187		
17	"	990		92-26-22			4.0		-46.1	1426.9		188		
18	"	1870		90-29-30			4.0		-20.0	1453.0		189		
19	"	2750		90-26-55			14.0	-20.5	-32.4	1437.6	0	190	1437.7	
20	"	2750		269-33-28			14.0	-35.3			0			

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STADIA SURVEY NOTES

AREA KUNA RIVER STATE or PROVINCE ALASKA PAGE No. 10
 LINE No.(s) 107 PARTY No. 1184 DATE 12 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D JENSEN 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												1437.6				
2														190		
3	E	2750		90-44-40				14.0	49.7	+49.8	1487.4		Δ			
4	"	2750		269-15-00				14.0	50.0				Δ			
5	"	1870		90-52-05				4.0		-32.3		1455.1	-	191		
6	"	990		90-52-35				4.0		-19.1		1468.2	-	192		
7	"	110		91-19-44				4.0		-6.6		1480.8	-	193		
8														193-1		
9	W	770		90-35-10				4.0		-11.9		1475.5	-	194		
10	"	1660		90-22-22				14.0		-24.7		1462.7	-	195		
11	"	2530		90-09-42				14.0	-21.1	-21.1		1466.3	0	196	1466.5	
12	"	2530		269-50-18				14.0	-21.1				0			
13	E	1430 ✓						14.9		+14.9	1481.2		Δ			
14	"	1430		90-11-48				10.0	14.9				Δ			
15	"	550		90-13-00				4.0		-6.1		1475.1	-	197		
16		0												197-3	X	
17	W	330		91-58-11				4.0		-15.3		1465.9	-	198		
18	"	1210		91-06-10				4.0		-22.3		1453.9	-	199		
19	"	2090		90-42-44				10.0	-36.0	-36.0		1445.2	0	200	1445.4	
20	"	2090		269-17-13				10.0	-36.0				0			

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STADIA SURVEY NOTES

AREA KUNA RIVER STATE or PROVINCE ALASKA PAGE No. 11
 LINE No.(s) 107 PARTY No. 1184 DATE 12 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D JENSEN 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											1445.2			
2														
3	E	2310	✓					13.7	+13.7	1458.9		Δ		
4	"	2310		90-05-32				10.0	13.7			Δ		
5	"	1430		90-22-17				14.0	-23.3	1435.6		-	201	
6	"	550		90-13-20				4.0	-6.1	1452.8		-	202	
7		0											202-3 π	
8	W	330		91-17-05				4.0	-11.4	1447.5		-	203	
9	"	1210		91-39-44				4.0	-39.1	1419.8		-	204	
10	"	2090		91-24-24				4.0	-55.3	1403.6		-	205	
11	"	2970		90-52-15				14.0	-59.1	1399.8		0	206 1400-1	
12	"	2970		269-07-50				14.0	-59.1			0		
13	E	2640	✓					2.3	+2.3	1402.1		Δ		
14	"	2640		89-56-30				5.0	2.3			Δ		
15	"	1760	✓					5.3	-5.3	1396.8		-	207	
16	"	880	✓					4.4	-4.4	1397.7		-	208	
17		0					41	5.8	-5.8	1396.3		-	209 π	
18	W	880		90-23-00				4.0	-9.9	1392.2		-	210	
19	"	1760		90-16-00				4.0	-12.2	1389.9		-	211	
20														

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STADIA SURVEY NOTES

AREA KUNA RIVER STATE or PROVINCE ALASKA PAGE No. 12
 LINE No.(s) 107 PARTY No. 1184 DATE 12 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W D HELANDER RODMAN D JENSEN 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												1402.1			
2															
3	W	2640		90-04-05					14.0	-17.1	-17.1		1385.0	0	212 1385.4
4	"	2640		269-55-55					14.0	-17.1				0	
5	E	2640		89-34-18					5.0	-14.7	-14.6	1370.4		Δ	
6	"	2640		270-25-18					5.0	-14.4				Δ	
7	"	1760		89-29-00					4.0		+11.9		1382.3	-	213
8	"	880		89-38-00					4.0		+1.6		1372.0	-	214
9		0					HI		5.8		-5.8		1364.6	-	215 X
10	W	880		90-19-15					4.0		-8.9		1361.5	-	216
11	"	1760	✓						2.5		-2.5		1367.9	-	217
12	"	2090		89-37-47					5.0	8.5	+8.5		1378.9	0	217.2 1379.3
13	"	2090		270-22-10					5.0	8.5				0	
14	E	3190		89-24-30					5.0	-27.9	-27.5	1351.4		Δ	
15	"	3190		270-34-38					5.0	-27.1				Δ	
16	"	2640		89-33-33					4.0		+16.3		1367.7	-	218
17	"	1760		90-10-25					4.0		-9.3		1342.1	-	219
18	"	880		90-20-10					4.0		-9.2		1342.2	-	220
19		0					HI		5.8		-5.8		1345.6	-	221 X
20	W	880		90-22-00					4.0		-9.6		1341.8	-	222

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STADIA SURVEY NOTES

AREA KUNA RIVER STATE or PROVINCE ALASKA PAGE No. 18
 LINE No.(s) 107 PARTY No. 1184 DATE 12 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W D HELANDER RODMAN D JENSEN 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												1351.4				
2																
3	W	1760		89-41-15				4.0		+5.6		1337.0	-	223		
4	"	2640		89-02-50				5.0	38.9	38.9		1390.3	0	224	1390.8	
5	"	2640		270-57-04				5.0	38.8				0			
6	E	2090		91-44-10				14.0	77.3	77.4		1467.7				Δ
7	"	2090		268-15-25				14.0	77.6							Δ
8	"	1210		92-23-40				10.0		-6.6		1407.7	-	225		
9	"	330		92-12-35				4.0		-16.7		1451.0	-	226		
10		0														226.2
11	W	550		88-57-55				4.0		+5.9		1473.6	-	227		
12	"	1430		88-59-05				14.0	11.3	+11.3		1479.0	0	228	1479.6	
13	"	1430		271-00-40				14.0	11.2					0		
14	N	1600	✓					7.2		+7.2		1486.2				Δ
15	"	1600		90-04-40				5.0	7.2							Δ
16		0														π
17	S	2860	✓					6.7		-6.7		1479.5	0			
18	"	2860		90-01-55				5.0		-6.6				0		
19																
20																

1310 1/2
 1310
 1310
 1310
 1310
 1310

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STADIA SURVEY NOTES

AREA KUNA RIVER STATE or PROVINCE ALASKA PAGE No. 14
 LINE No.(s) 107 PARTY No. 1184 DATE 13 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D JENSEN 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													1479.5			
2																
3	N	1840		90-02-37				14.0	15.4	+15.4		1494.9		Δ		
4	-	1840		269-57-13				14.0	15.5					Δ		
5		0														↑
6	S	2440		89-42-55				5.0	+7.1	+7.1		1502.0		○	BAS #8614	1502.7
7	-	2440		270-17-07				5.0	+7.1					○		
8													1502.7		ELEV	
9																
10													-0.7		MISTLE	
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

10.2 1/2
 1.8
 9.2

 13.2 1/2
 1.8
 12.2

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STADIA SURVEY NOTES

AREA Kung River STATE or PROVINCE Alaska PAGE No. 15
 LINE No.(s) 107 PARTY No. 1124 DATE 4 Day 14 Mo. 77 Yr. BOOK No. _____
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1				TAKE OFF			BAS								
2															
3	S	2440		89-42-55				5.0	-7.1	-7.1	1495.6			Δ	
4	"	2440		270-17-07				5.0	-7.1					Δ	
5		0						5.8		-5.8	1489.8			π	
6	N	1840		90-02-37				14.0	-15.4	-15.4	1480.2			0	
7	"	1840		269-57-13				14.0	-15.5					0	
8	S	2860	✓					6.7		+6.7	1486.9			Δ	
9	"	2860		90-01-55				5.0	+6.7					Δ	
10		0						5.8		-5.8	1481.1			π	
11	N	1600	✓					7.2		-7.2	1479.7		228	0	
12	"	1600		90-04-40				5.0	-7.2					0	
13	E	1760		89-19-51				14.0	-6.6	-6.6	1473.2			Δ	
14	N	1760		270-39-53				14.0	-6.4					Δ	
15	"	880		88-51-58				10.0		5.8	1479.1		229	-	
16		0						5.8		-5.8	1467.4		230	-	
17	W	880		91-32-13				4.0		-21.6	1451.5		231	-	
18	"	1760		91-45-07				11.0						1445.7	
19	"	2640												232	
20														233	

STADIA SURVEY NOTES

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 16
 LINE No.(s) 101 PARTY No. 1184 DATE 4 Day 14 Mo. 77 Yr. BOOK No. _____
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1	W									1473.2				
2	W	1210		91-37-14				10.0	-44.2	-44.3	1428.9	0	231-2	
3	"			268-22-02				10.0	-44.4			0		
4	E	1980		87-48-55				10.0	-65.5	-65.4	1363.5	0		
5	"			272-10-49				10.0	-65.3			0		
6	"	1430		88-17-14				10.0	-52.7		1310.8	-	232 1396-3	
7	"	550		88-24-34				10.0	5.3		1368.8	-	233	
8		~0~						5.8	-5.7	-5.8	1357.7	-	233-3 K	
9	W	330		93-44-40				10.0	-31.6		1331.9	-	234	
10	"	1210		93-10-59				10.0	-35.0		1328.5	-	235	
11	"	2090		90-48-06				10.0	-39.2		1324.3	-	236	
12	"	2970		90-40-01				5.0	-39.6	-39.7	1323.8	0	237	
13	"			269-19-35				5.0	-39.9			0		
14	E	2970		93-06-22				10.0	171.1	+171.2	1495.0	Δ		
15	"			266-53-10				10.0	171.3	171.2		Δ		
16	"	2090		94-21-24				10.0	-168.8		1326.2	-	238	
17	"	1210		94-35-30				5.0	-101.2		1393.8	-	239	
18	"	330		94-46-15				4.0	-30.9		1464.1	-	240	
19		~0~						5.8		-5.8	1489.2	-	240-2 K	
20	W	550		89-34-18				5.0	-0.9		1494.1	-	241	

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STADIA SURVEY NOTES

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 17
 LINE No.(s) 107 PARTY No. 1184 DATE 4 Day 14 Mo. 77 Yr. BOOK No.
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Clear P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1											1495.0					
2	W	1100		89-41-44	89-45-00			10.0	-4.6	-4.6	1490.4	0	241-3			
3	"			270-17-03				10.0	-4.5	-4.5		0				
4	E	2090		87-22-06				10.0	-86.0	-85.9	1404.5	Δ				
5	"			272-37-42				10.0	-85.8			Δ				
6	"	1760		88-25-43				5.0	43.3		1447.9	-	242			
7	"	880		87-54-44				5.0	27.1		1431.6	-	243			
8		~0~						5.8		-5.8	1398.7	~	244	X		
9	W	980		91-37-58				4.0	-29.1		1375.4	-	245			
10	"	1760		91-28-32				16.0	-55.3		1349.2	-	246			
11	"	2640		91-27-04				10.0	-76.9	-77.0	1327.5	0	247			
12	"			268-32-31				10.0	-77.2			0				
13	E	2640		90-41-11				10.0	+41.6	+41.6	1369.1	Δ				
14	"			269-18-59				10.0	41.5	41.5		Δ				
15	"	1760		90-37-50				14.0	-34.4		1334.7	-	248			
16	"	980		90-46-42				5.0	-17.0		1352.1	-	249			
17		~0~						5.8		-5.8	1363.3	-	250	TS		
18	W	980		89-44-06				5.0	-0.9		1368.2	-	251			
19	"	1760		89-36-23				10.0	2.1		1371.2	-	252			
20	"	2640		89-49-41				10.0	-2.1	+2.0	1367.1	0	253	MARKER PIPE		
TI-588B		2640		276-10-29				10.0	-1.9			0				

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STADIA SURVEY NOTES

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 18
 LINE No.(s) 109 PARTY No. 1184 DATE 4 Day 14 Mo. 77 Yr. BOOK No. _____
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Reed	Reading	Correc-tion			Center Hair	INST.		
1														
2														
3	N	2220		89-48-18				10.0	2.4	+2.4	1369.5			
4	"	2220		270-11-44				10.0	2.4					
5		~0~						5.8		-5.8	1363.9			T
6	S	2240		89-37-56				14.0	0.4	+0.4	1369.9			
7	"	2240		270-22-13				14.0	0.5					
8	N	2220		89-57-40				50	3.5	+3.5	1378.4			
9	"	2220		270-02-25				50	3.4					
10		~0~						58		-5.8				
11	S	2300		89-44-05				5.0	5.6	+5.4	1378.8			
12	"	2300		270-15-18				5.0	5.2					
13	N	1460		90-08-34				10.0	13.6	+13.6	1392.4			
14	"	1460		269-51-52				10.0	13.5					
15		0						5.8		-5.8	1386.6		BAR 8712	π
16														
17											1386.5			
18											+0.1			
19														
20														

14.1
2.0
1/2

14.2
2.0
1/2

13.1
2.0
1/2

13.5
2.0
1/2

12.3
5.0
1/2

7.3
146

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STADIA SURVEY NOTES

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 19
 LINE No.(s) 107 PARTY No. 1184 DATE 4 Day 14 Mo. 77 Yr. BOOK No. _____
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Δ S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1				TAKE OFF BARS							1386.5			INSTRUMENT SET	
2														OVER MONUMENT	
3		0								+5.8	1392.3	Δ			
4	E	1460		90-08-34					10.0	-13.6	-13.6	1378.7	0		
5	"	1460		269-51-52					10.0	-13.5		0			
6	S	2300		89-44-05					5.0	-5.6	-5.4	1373.3	Δ		
7	"	2300		270-15-18					5.0	-5.2		1369.7	Δ		
8		-0~							5.8		-5.8	1367.5	Δ	T	
9	N	2220		89-57-40					5.0	-3.5	-3.5	1369.8	0		
10	"	2220		270-02-25					5.0	-3.4		0			
11	S	2240		89-37-56					14.0	-0.4	-0.4	1269.4	Δ		
12	"	2240		270-22-13					14.0	-0.5		Δ			
13		-0~							5.8		-5.8	1363.6	Δ	T	
14	N	2220		89-48-18					10.0	-2.4	-2.4	1367.0	0	253 MARKER PIPE	
15	"	2220		270-11-44					10.0	-2.4		0		1366.5	
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 28
 LINE No.(s) 107 PARTY No. 1184 DATE 4 Day 15 Mo. 77 Yr. BOOK No. _____
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD		
1												1367.0			
2	V	1640		89-49-41				10.0	-2.1	-2.0			0	253	
3	"			270-04-39				10.0	-1.9				0	253	
4	E	2970		89-55-49				10.0	6.4	+6.1	1373.1		Δ		
5	"			270-04-58				10.0	5.7				Δ		
6	"	1760		90-34-04				5.0	-21.4			1350.7	-	254	
7	"	886		90-31-56				10.0	-18.2			1354.9	-	253	
8	"	330		90-59-03				10.0	-15.2			1357.9	-	256	
9		~0~						5.8		-5.8		1367.3		256-2.7	
10	W	550		89-33-50				4.0	0.2			1373.3	-	257	
11	"	1430		89-23-36				4.0	11.1			1384.2	-	258	
12	"	2310		89-19-59				4.0	-30.9			1342.2	-	259 1396.0	
13	"	3190	✓	89-03-07				5.0	47.8	+47.5		1420.6	0	260 1419.8	
14	"		✓	270-56-10				5.0	47.1				0		
15	E	1430		91-34-05				14.0	51.9	+51.9	1472.5		Δ		
16	"			268-29-05				14.0	51.8				Δ		
17	"	550		91-28-40				4.0	-18.2			1454.3	~	261	
18		~0~						5.8		-5.8		1466.8		261+3 π	
19	W	330		89-07-04				4.0	1.1			1473.6	-	262	
20															

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STADIA SURVEY NOTES

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 21
 LINE No.(s) 107 PARTY No. 1184 DATE 4 Day 15 Mo. 77 Yr. BOOK No.
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Clear P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.		
1											1472.5			
2	W	1210		88-59-33				14.0	7.3	+7.2		1479.7	0	263 1478.8
3	"	"		270-59-39				14.0	7.0				0	
4	E	2640		89-59-03				10.0	9.3	+9.6	1489.3		Δ	
5	"	"		270-00-03				10.0	10.0				Δ	
6	"	1760		90-56-11				4.0	-32.8			1456.5	-	264
7	"	880		91-37-08				4.0	-28.9			1460.4	-	265
8	"	~0~						5.8		-5.8		1483.5	-	266 X
9	W	880		91-14-18				10.0	-29.0	-29.0		1460.3	0	267 1459.2
10				268-48-39				10.0	-29.0				0	
11	E	2640		88-58-59				10.0	-36.9	-37.1	1423.2		Δ	
12	"	"		271-01-47				10.0	-37.4				Δ	
13	"	1760		90-19-14				4.0	-13.8			1409.4	-	268
14	"	880		90-57-58				4.0	-18.8			1404.4	-	269
15	"	~0~						5.8		-5.8		1417.9	-	270 X
16	W	880		88-30-42				4.0	+18.9			1442.1	~	271
17	"	1760		-97-56-39				4.0	+59.1			1482.3	~	272
18	"	2640		88-00-10				14.0	72.0	+77.9		1501.1	0	273 1499.8
19	"	"		271-57-30				14.0	77.8				0	
20														

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STADIA SURVEY NOTES

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 22
 LINE No.(s) 107 PARTY No. 1184 DATE 4 Day 15 Mo. 77 Yr. BOOK No. _____
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												1501.1				
2	E	3190		91-35-20				10.0	98.5	+98.4	1599.6		Δ	273		
3	"	"		268-24-47				10.0	98.3				Δ ₁			
4	"	2310		91-43-16				4.0	-13.4			1526.1	-	274		
5	"	1430		91-50-02				4.0	-49.8			1549.7	-	275		
6	"	550		92-08-35				4.0	-24.6			1576.1	-	276		
7	v	20~						5.8		-5.8		1593.1	-	276-3	τ	
8	w	330		89-17-49				4.0	0.0			1599.5	-	277		
9	"	1210		89-22-30				14.0	-0.8			1598.7	-	278		
10	"	2090		89-20-35				4.0	20.0			1619.5	-	279		
11	"	2970		89-19-15				5.0	30.2	+30.4		1629.9	0	280	1628.3	
12		"		270-41-10				5.0	30.6				0 ₁			
13	E	2640		91-25-23				10.0	+75.6	+75.5	1705.4		Δ			✓
14	"	"		268-34-57				10.0	+75.3				Δ ₁			
15	"	1760		91-52-10				4.0	-61.4			1644.0	-	287		
16	"	880		91-36-41				14.0	-38.7			1666.7	-	282		
17		~0~						5.8		-5.8		1699.6		283	τ	
18	w	880		87-55-12				4.0	27.9			1733.3	-	284		
19	"	1760		87-41-57				10.0	60.7			1766.1	-	285		
20	"	2640		87-47-13				10.0	91.9			1797.3	-	286		

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STADIA SURVEY NOTES

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 23
 LINE No.(s) 107 PARTY No. 1184 DATE 4 Day 15 Mo. 77 Yr. BOOK No. _____
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction				INST.	ROD			
1											1705.4 (1705.4)					
2	W	2970		87-50-32				12.0	99.8	+99.7		1805.1	0	2862	2872	
3	"			272-09-09				120	99.6				0		1803.2	
4	E	2310		87-50-55				10.0	-76.7	-76.8	1728.3		Δ			
5	"			272-09-29				10.0	-77.0				Δ			
6	"	1760		87-52-09				4.0	61.4			1789.7	~	289		
7	"	880		88-40-24				40	16.4			1744.7	~	288		
8		~0~						5.8		-5.8		1722.5	—	289		
9	W	880		41-59-39				4.0	-34.6			1693.7	—	290		
10	"	1760		90-52-38				4.0	30.9			1759.9	—	291	1697.1	
11	"	2640		89-59-14				10.0	-9.4	-9.6		1718.7	0	292	1716.6	
12	"	"		270-00-14				10.0	-9.8				0			
13	E	2640		92-42-22				13.0	137.6	+137.6	1856.3		Δ			
14	"			207-07-50				13.0	137.5				Δ			
15	"	1760		93-43-00				14.0	128.1			1728.2	—	293		
16	"	820		92-35-45				4.0	-49.0			1807.3	—	294		
17		~0~						5.8		-5.8		1850.5	—	295	K	
18	W	10836		91-50-11				14.0	-38.0	-38.0		1818.3	0	296	295 + 710	
19				208-03-35				14.0	-38.0				0		1816.0	
20																

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STADIA SURVEY NOTES

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 24
 LINE No.(s) 107 PARTY No. 1184 DATE 4 Day 15 Mo. 12 Yr. BOOK No. _____
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Clear P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											1878.3				
2	E	2840		87-07-15				5.0	-137.7	-137.6	1680.7	Δ	295+	710	
3	"			272-53-36				5.0	-137.5			Δ ₁			
4	"	2640		87-13-45				4.0	119.8		1800.5	~	296		
5	"	1080		88-28-12				4.0	43.0		1723.7	~	297		
6	"	880		89-06-14				4.0	9.8		1690.5	~	298		
7		~0~						5.8		-5.8	1679.9	~	299	π	
8	W	330		91-35-35				13.0	-42.5		1638.2	~	300		
9	"	1760		90-26-29				4.0	-17.6		1663.1	~	301		
10	"	2640		89-49-21				10.0	-1.8	-1.9	1678.8	0	302	1678.2	
11	"			270-10-14				10.0	-2.1			0 ₁			
12	E	880		90-33-46				16.0	18.6	+18.6	1697.4	Δ ₁			
13	"	"		269-26-37				16.0	18.5			Δ ₁			
14		~0~						5.8		-5.8	1691.6	~	303	π	
15	W	880		89-17-28				10.0	0.9	+0.9	1698.3	~	304	TAKE OFF POINT	
16	"	"		270-42-40				10.0	0.9			0	304		
17	S	1380		88-52-47				14.0	22.8	+22.9	1720.3	0		1717.6	
18	"	"		271 07 33				14.0	23.0			0 ₁			
19	N	2120		91-29-30				10.0	65.2	+65.3	1785.6	Δ			
20	"	"		268-30-13				10.0	65.4			Δ ₁			

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14.2
10.212.4
34.6
4
10.6

STADIA SURVEY NOTES

AREA Kuma River STATE or PROVINCE Alaska PAGE No. 25
 LINE No.(s) 107 PARTY No. 1184 DATE 4 Day 15 Mo. 77 Yr. BOOK No. _____
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Clear P.T.S. No. _____

142
 4
 524
 59

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											1785.6			
2	S	~0~						5.8	-5.8		1779.8		T	
3	S	2040		90-20	-29			10.0	-22.2	-22.1	1763.5	0		
4	"	"		269	39	42		10.0	-22.0			0		
5	N	1480		90-33	-55			5.0	19.6	+19.6	1783.1		Δ	
6	"	"		269	-25	-51		6.0	19.7				Δ	
7		0						+5.8		-5.8	1777.3		T	
8	S	500		91-08	-02			5.0	-14.9	-14.9	1768.2	0	BAS 8906	
9	"	"		268	-51	49		5.0	-14.9			0		
10											1765.2		ELEV 1765.2	
11														
12											+3.0		MISTIE	
13														
14														
15														
16														
17														
18														
19														
20														

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STADIA SURVEY NOTES

AREA LIBERATOR RIDGE STATE or PROVINCE ALASKA PAGE No. 26
 LINE No.(s) 107 PARTY No. 1184 DATE 15 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD MELANDER RODMAN D JENSEN 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		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1	*															
2																
3	E	2640		90-23-50				14.0	32.3	+32.4	1727.7		Δ			ELEV. FROM P-24 L-15 -
4	"	2640		269-35-45				14.0	32.6				Δ			TRAVERSE WORKED
5	"	1760		90-30-47				4.0		-19.8	1707.9					BACKWARDS FROM
6	"	880		90-30-40				4.0		-11.8	1715.9					BAS B906 TO SP 304
7		0						H1 5.9		+5.9	1721.8					FOR A MORE
8	W	880		89-18-22				4.0		+6.7	1734.4					307
9	"	1760		88-51-58	89-23-40			4.0		+14.6	1742.3					308
10	"	2640		88-51-50				4.0		+48.3	1776.0					309
11	"	3520		88-20-44				14.0	87.6	+87.3	1815.0		0	311	1815.1	
12	"	3520		88-38-47				14.0	87.1				0			
13	E	2640	✓					8.3		+8.3	1823.3		Δ			
14	E	2640		89-57-50				10.0	8.3				Δ			
15	"	1760		90-03-22				14.0		-15.7	1807.6					312
16	"	880	✓					4.5		-4.5	1818.8					313
17		0						H1 5.8		-5.8	1817.5					314
18	W	880	✓					3.8		-3.8	1819.5					315
19	"	1760		89-46-33				5.0	1.9	+1.8	1826.1		0	316	1826.2	
20	"	1760		270-12-50				5.0	1.6				0			

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AREA LIBERATOR RIDGE STATE or PROVINCE ALASKA PAGE No. 27
 LINE No.(s) 10-7 PARTY No. 1184 DATE 15 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN O JENSEN 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												1825.1			
2															
3	E	2640		89-07-55				14.0	-26.0	-25.8	1799.3		Δ		
4	"	2640		87-51-35				14.0	-25.6				Δ		
5	"	1760		89-07-00				10.0		+17.1		1816.4	-	317	
6	"	880		89-02-50				4.0		+10.6		1809.9	-	318	
7		0						5.8		-5.8		1793.5	0	319	x
8	W	880		90-57-55				4.0		-18.8		1780.5	0	320	
9	"	1760		90-58-30				10.0		-39.9		1759.4	-	321	
10	"	2640		90-59-00				14.0	-59.3	-59.2		1740.1	0	322	1740.3
11	"	2640		269-01-20				14.0	-59.0				0		
12	E	2640		89-09-10				10.0	-29.0	-29.2	1710.9		Δ		
13	"	2640		270-51-15				10.0	-29.4				Δ		
14	"	1760		89-26-25				4.0		+13.2		1724.1	-	323	
15	"	880		89-30-30				4.0		+3.6		1714.5	-	324	
16		0						5.8		-5.8		1705.1	-	325	x
17	W	880		90-37-23				4.0		-14.1		1696.8	-	326	
18	"	1760		90-44-10				10.0		-32.6		1678.3	-	327	
19	"	2310		90-27-55				14.0	-32.8	-32.6		1678.3	0	327.3	1678.5
20	"	2310		269-32-35				14.0	-32.4				0		

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STADIA SURVEY NOTES

AREA LIBERATOR RIDGE STATE or PROVINCE ALASKA PAGE No. 28
 LINE No.(s) 107 PARTY No. 1184 DATE 15 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D JENSEN 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														
2													327.3	
3	E	3540		90-54-15				14.0	38.3	+38.3	1716.6		Δ	
4	"	1840		269-05-48				14.0	38.3				Δ	
5	"	1210		92-18-40				4.0		-52.8	1663.8		-	328
6	"	330		91-52-00				4.0		-14.7	1701.9		-	329
7		0												329.2 π
8	W	550		91-09-50				10.0		-21.2	1695.4		-	330
9	"	1430		91-34-44				14.0		-53.4	1663.2		-	331
10	"	2310		91-19-44				4.0		-57.6	1669.0		-	332 1659.1
11	"	3190		90-43-50				14.0	-59.3	-59.0	1657.6	0	0	333 1657.9
12	"	3190		269-11-47				14.0	58.7				0	
13	E	1760	✓					12.6		+12.6	1670.2		Δ	
14	"	1760		90-05-00				10.0	12.6				Δ	
15	"	880		90-52-40				4.0		-17.5	1652.7		-	334
16		0						HI 5.8		-5.8	1664.4			335 π
17	W	880		91-00-30				4.0		-19.5	1650.7		-	336
18	"	1760		90-36-22				4.0		-22.6	1647.6		-	337
19	"	2640		90-01-45				14.0	-15.3	-15.2	1655.0	0	0	338 1655.3
20	"	2640		269-82-37				14.0	-15.1				0	

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STADIA SURVEY NOTES

AREA LIBERATOR RIDGE STATE or PROVINCE ALASKA PAGE No. 29
 LINE No.(s) 107 PARTY No. 1184 DATE 15 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D JENSEN 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.			
1															
2															
3	E	1760		90-40-30				14.0	34.7	+34.7	1689.7		Δ		
4	"	1760		269-19-46				14.0	34.6				Δ		
5	"	880		92-52-00				4.0		-48.3	1641.4		-	339	
6		0						5.8		-5.8	1683.9		-	340	
7	W	880		89-44-50				4.0		-0.1	1689.6		-	341	
8	"	1760		89-29-00				4.0		+11.9	1701.6		-	342	
9	"	2640		89-25-30				14.0	12.4	+12.4	1702.1		0	343 1702.5	
10	"	2640		270-34-24				14.0	12.4				0		
11	E	1870		88-40-33				5.0	-38.2	-38.3	1663.8		Δ		
12	"	1870		271-19-47				5.0	-38.4				Δ		
13	"	990		89-27-44				4.0		+2.4	1666.2		-	344	
14	"	110		93-47-44				4.0		-11.3	1652.5		-	345	
15		0												345-1	
16	W	770		92-04-00				4.0		-31.8	1632.0		-	346	
17	"	1650						1.8		-1.8	1662.0		-	347	
18	"	2530		89-38-20				10.0	5.9	+6.1	1669.9		0	348 1670.4	
19	"	2530		270-22-11				10.0	6.3				0		
20															

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STADIA SURVEY NOTES

AREA KILIBWA RIVER STATE or PROVINCE ALASKA PAGE No. 30
 LINE No.(s) 107 PARTY No. 1184 DATE 16 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D JENSEN 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													1669.9			
2															348	
3	E	4400		88-07	25				14.0	-130.1	-130.3	1539.6		Δ		
4	"	4400		271-52	53				14.0	-130.5				Δ		
5	"	3520		88-09	30				4.0		+109.1		1648.7	-	349	
6	"	2640		90-11	00				14.0		-22.4		1517.2	-	350	
7	"	1760		90-20	40				4.0		-19.7		1519.9	-	351	
8	"	880		90-48	20				4.0		-16.4		1523.2	-	352	
9		0							HI 5.8		-5.8		1553.8		353	X
10	W	880		89-22	30				4.0		+4.1		1543.7	-	354	
11	"	1760		89-19	40				4.0		+16.6		1556.2	-	355	
12	"	2640		88-49	30				5.0	49.1	+49.4		1589.0	0	356	1589.5
13	"	2640		271-11	11				5.0	49.7				0		
14	E	1760		92-39	44				14.0	95.7	+95.7	1684.7		Δ		
15	"	1760		267-20	25				14.0	95.7				Δ		
16	"	880		92-44	25				14.0		-56.1		1628.6	-	357	
17		0							HI 5.9		-5.9		1678.8		358	X
18	W	880		89-22	50				14.0	-4.5	-4.5		1680.2	0	359	1680.8
19	"	880		270-37	33				14.0	-4.4				0		
20																

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STADIA SURVEY NOTES

AREA KILIGWA RIVER STATE or PROVINCE ALASKA PAGE No. 31
 LINE No.(s) 107 PARTY No. 1184 DATE 16 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D JENSEN 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											1680.2			
2												359		
3	E	1760		88-48-00				10.0	-27.9	-28.0	1652.2		Δ	
4	"	1760		271-14-30				10.0	-28.1				Δ	
5	"	880	✓					6.1		-6.1	1646.1	-	360	
6		0					H1	5.8		-5.8	1646.4	-	361	π
7	W	880		89-11-33				4.0		+8.4	1660.6	-	362	
8	"	1760		88-15-40				4.0		+49.4	1701.6	-	363	
9	"	2530		88-10-44				14.0	66.9	+66.5	1718.7	0	363-4	1719.3
10	"	2530		271-49-33				14.0	66.6				0	
11	E	2750		91-05-10				14.0	66.1	+66.0	1784.7		Δ	
12	"	2750		268-55-08				14.0	65.9				Δ	
13	"	2640		91-23-30				4.0		-68.1	1716.6	-	364	
14	"	1760		92-06-40				4.0		-68.8	1715.9	-	365	
15	"	880		92-55-00				4.0		-48.8	1735.9	-	366	
16		0						5.8		-5.8	1778.9		367	π
17	W	880		85-15-45				2.0	70.7	+70.7	1855.4	0	368	1856.1
18	"	880		274-44-54				2.0	70.8				0	
19														
20														

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STADIA SURVEY NOTES

AREA KILIGWA RIVER STATE or PROVINCE ALASKA PAGE No. 32
 LINE No.(s) 107 PARTY No. 1184 DATE 16 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR W.D. MELANDER RODMAN D. JENSEN 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.			
1											1855.4				
2													368		
3	E	550		92-46-00				14.0	40.5	+40.5	1895.9		Δ		
4	"	550		867-14-10				14.0	40.5				Δ		
5		0											368-3	π	
6	N	260		89-03-22				5.0	-0.7	-0.7	1895.2	0	BAS	8620	
7	"	260		270-57-05				5.0	-0.7			0		1895.9	
8											1895.9		ELEV		
9															
10											-0.7		MIETIE		
11															
12															
13															
14				TAKE OFF				BAS	8620		1895.9				
15															
16	N	260		89-03-22				5.0	+0.7	+0.7	1896.6		Δ		
17	"	260		270-57-05				5.0	0.7				Δ		
18		0												π	
19	W	330	✓					8.5		-8.5	1888.1	0	369		
20	"	330		89-44-14				10.0	-8.5			0			

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STADIA SURVEY NOTES

AREA KILGWA RIVER STATE or PROVINCE ALASKA PAGE No. 33
 LINE No.(s) 107 PARTY No. 1184 DATE 16 Day 4 Mo. 77 Yr. BOOK No. _____
 SURVEYOR WD HELANDER RODMAN D N JENSEN 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												1888.1				
2															369	
3	E	2640		87-23-00				14.0	-106.5	-106.5	1781.6		Δ			
4	"	2640		87-37-00				14.0	-106.5				Δ			
5	"	1760		87-43-25				4.0		+65.9		1847.5	-	370		
6	"	880		88-02-00				4.0		+26.2		1807.8	-	371		
7		0						HI 5.8		-5.8		1775.8		372		X MARKER PIPE S
8	W	880		88-46-25				4.0		+14.8		1796.4	-	373		LAST HOLE DRILLED
9	"	1430		88-37-50				10.0	24.2	+24.3		1805.9	0	373-3		
10	"	1430		87-22-40				10.0	24.4				0			THESE SPs
11	E	1760		87-03-27				5.0	-85.3	-85.4	1720.5		Δ			NOT DRILLED
12	"	1760		87-57-05				5.0	-85.6				Δ			OR SHOT -
13	"	1430		86-59-00				4.0		+71.3		1791.8	-	374		USED AS
14	"	550		87-04-05				4.0		+24.1		1744.6	-	375		TAIL SPREAD
15		0												375-3		
16	W	330		94-36-05				14.0		-40.5		1680.0	-	376		
17	"	1210		94-45-36				14.0		-114.4		1606.1	-	377		
18	"	2090		92-07-14				4.0		-81.3		1639.2	-	378		
19	"	2970		91-00-00				14.0	-65.8	-65.8		1654.7	0	379		
20	"	2970		89-00-05				14.0	-65.8				0			

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK PAGE No. 1
 LINE No.(s) 107 PARTY No. 1186 DATE 10 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN G. CONRAD WEATHER: MILD 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					RE: LINE 124					PAGE 61		2050.0	0	E	L-124 SP. 582 + 350	
2															L-107 SP. 572	
3															(IRON-PIPE)	
4																
5		1760		88-00				3.5	-57.9	58.0	1992.0		Δ			
6		✓		272-20				13.5	-58.1				CK			
7	E	880		272-00				4.5	+26.2		2018.2			573		
8		0	-					5.2			1986.8			574		
9	W	880		92-00				5.1	-35.8		1956.2			575		
10		1760		91-30				11.9	-58.0		1934.0			576		
11		2640		91-30				8.7	-77.8	77.5	1914.5	0		577	1915.4	
12		✓		268-77-34				14.0	-77.3				CK			
13		8640		89-20				6.1	-24.6	24.8	1889.7		Δ			
14		✓		270-50				13.4	-25.0				CK			
15		1760		270-20				2.2	+12.2		1901.9			578		
16	E	880		270-30				4.1	+3.6		1893.3			579		
17		0	-					5.2			1884.5			580		
18	W	880						4.4			1885.3			581		
19		1760						4.4	-4.4	4.3	1885.4	0		582	1886.5	
20		✓		270-10				9.2	-4.1				CK			

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 2.
 LINE No.(s) 107 PARTY No. 1186 DATE 10 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN - RODMAN S. KOHLER. WEATHER: MILD. 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											1885.4	0	582.		
2		2640		91-50			+	11.2	+ 96.0	+ 15.7	1981.1	Δ			
3		✓		260-00			+	3.4	+ 95.5			OK			
4		1760		266-50			-	13.2	- 110.7		1870.4		583.		
5	E	880		266-30			-	8.2	- 61.8		1919.3		584.		
6		0		-			-	5.3			1975.8		585.		
7	W	880		87-40			-	5.9	+ 29.9		2011.0	0	586.	2012-4	
8		✓		272-30			-	8.3	+ 30.0			OK			
9		2640		90-30			+	14.5	+ 37.5	+ 34.3	2048.3	Δ			
10		✓		269-20			+	6.3	+ 37.0			OK			
11		1760		269-30			-	11.0	- 26.4		2021.9		587		
12	E	880		269-30			-	10.2	- 17.9		2030.4		588.		
13		0		-			-	5.3			2043.0		589.		
14	W	880		89-20			-	2.7	+ 7.5		2055.8		590.		
15		1760		89-20			-	6.5	+ 14.0	+ 14.1	2062.4	0	591.	2063.9	
16		✓		270-50			-	11.3	+ 14.3			OK			
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 3.
 LINE No.(s) 107 PARTY No. 1186 DATE 10 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN - RODMAN S. KOHLER. WEATHER: MILD. 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													2062.4	D	591.	
2		1870		+1/2				+	12.6	-9.4	+3.2	+	2065.4	A		
3		✓		270-20				+	13.7		+2.8	8.0		CK.		
4	E	990		270-30				-	8.3		+0.3		2065.7		592.	LAST. SP. WEST.
5		0	-					-	5.3				2060.1	#	5.	
6	W.	1540		91-36-27				-	4.2		-47.4		2018.0	#	12.	
7		4180		91-06-17				-	4.2		-84.8		1980.6	#	24.	
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK PAGE No. 4
 LINE No.(s) 107 PARTY No. 1126 DATE 9 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN RODMAN M+ WEATHER: MILD / CLEAR P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2												2050.0	0	TP	2051 582 + 550
3		1760		92-00				12.0	+ 73.4	+ 3.1	2123.1		Δ		
4		✓		267-50				6.4	+ 72.9				CK		
5	W	880		268-00				10.0	- 40.7		2082.4			571	
6		0						5.2			2117.9			570	
7	E	880		87-40				5.7	+ 30.1		2153.2			569	
8		1760		87-40				7.0	+ 64.6	+ 8.7	2187.8		0	568	2189.1
9		✓		272-30				11.8	+ 64.9	8.7			CK		2189.0
10		880		90-20				13.0	+ 18.1	+ 3.0	2205.8		Δ		
11	W	✓		269-30				10.2	+ 17.9	17.0			CK		
12		0						5.3			2200.5			567	
13	F	880		91-00				11.9	- 27.3		2178.5		0	566	2179.9
14		✓		268-40				6.7	- 27.2				CK		2179.7
15															
16	W	2530		87-50				2.8					Δ		
17		0						5.2						#	12 F.S.
18															
19	E	2640		92-33-44				4.2					0	#	24 F.S.
20															


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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 5.
 LINE No.(s) 107 PARTY No. 1186 DATE 11 Day S. Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN G. CONRAD WEATHER: MILD. 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												2178.5	o	566		
2																
3		1760		87-50				+	5.0	-	61.5	2117.0		Δ		
4		✓		87-20				+	10.2	-	61.4			CK		
5	W	880		272-20				-	8.5	+	27.3	2144.3		565		
6		0	-					-	5.3			2111.7		564		
7	E	880		92-20				-	6.8	-	42.3	2074.7		563		
8		1760		92-20				-	7.7	-	79.3	2037.7		562		
9		2640		92-20				-	10.2	-	117.6	1999.4	o	561	2000.6	
10		✓		267-54 ⁴⁴ -54				-	14.0	-	117.6			CK	2000.3	
11		1760		87-20				+	3.4	-	78.4	1921.0		Δ		
12		✓		272-50				+	8.5	-	78.4			CK		
13	W	880		272-40				-	4.0	+	36.9	1959.9		560		
14		0	-					-	5.3			1915.7		559		
15	F	880		93-00				-	6.2	-	52.2	1868.8		558		
16		1760						-	11.3			1909.7		557		
17		2640		89-10				-	6.3	+	32.1	1953.1	o	556	1954.2	
18		✓		871-00				-	13.9	+	72.2			CK	1953.8	
19																
20																

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 6.
 LINE No.(s) 107 PARTY No. 1184 DATE 11 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN. RODMAN RODMAN E. CONRAD WEATHER: CLEAR, MILD. P.T.S. No. 1

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												1953.1	0	556	
2		1760		72-00				+	11.7	+ 73.1	2026.2		Δ		
3		✓		268-04-28				+	14.0	+ 73.1			ck		
4	W	880		268-00				-	5.0	- 35.7		1990.5		555	
5		0						-	5.3			2020.9		554	
6	E	880		59-30				-	4.6	+ 3.1		2029.3	0	553	2030.5
7		✓		271-00				-	12.2	+ 3.2			ck		2030.0
8		2640		89-40				+	9.6	- 5.8	2023.5		Δ		
9		✓		270-10				+	1.9	- 5.8			ck		
10		1760	-					-	6.8			2016.7		552	
11	W	880		269-30				-	14.0	- 21.7		2001.8		551	
12		0						-	5.2			2018.3		550	
13	E	880		88-00				-	6.0	+ 24.7		2048.2		549	
14		1760		88-00				-	1.5	+ 59.9		2083.4		548	
15		2640		88-00				-	4.0	+ 88.1		2111.5	0	547	2112.8
16		✓		272-10				-	11.8	+ 87.9	2112.2		ck		2112.2
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 7
 LINE No.(s) 107 PARTY No. 1182 DATE 12 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN J. SCHLER WEATHER: MILO. 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											2111.5	0	547		
2		1760		91-30				+	12.3	+ 58.4	2169.9				
3		✓		268-20				+	7.2	+ 58.4			CK		
4	W	880		268-20				-	7.1	- 32.7	2137.2		546.		
5		0						-	5.3		2164.6		545		
6	E	620		29-50				-	4.3	- 2.5	2167.4	0	BM.	2627 2168.7	
7		✓		270-30				-	7.9	- 2.5			CK	2168.0	
8											2168.0			BARR. SURVEY.	
9											VERTICAL. TIE				
10															
11														C.G.L.	
12														MAY 11, 1977.	
13															
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 60
 LINE No.(s) 107 PARTY No. 1186 DATE 12 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN C. CONRAD WEATHER: CLEAR, MILD 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												2168.0	D	B.M. 8627	
2														BARR.	SURVEY.
3															
4		812		88-30				+	9.0	-12.2	2155.8		Δ		
5		✓		271-20				+	6.6	-12.3			OK		
6	W	550		271-30				-	4.3	+10.1		2165.9		444.	544.
7		0		-				-	5.3			2150.5		-	
8	E	330		92-30				-	6.2	-20.6		2135.2		443.	543.
9		1210		92-00				-	14.8	-57.0		2098.8		442.	542.
10		2090		92-20				-	10.9	-95.9		2059.8	D	541.	2059.7
11		✓		217-44.50				-	14.0	-96.1	76.0		OK		
12		1760		88-00				+	8.1	-53.3	2006.5		Δ		
13		✓		272-10				+	15.2	-53.3			OK		
14	W	880		272-00				-	6.9	+23.8		2030.3		540	
15		0		-				-	5.4			2001.1		539.	
16	E	880		92-00				-	12.5	-43.2		1963.3		538.	
17		1760		71-40				-	13.5	-64.7		1941.8		537.	
18		2640		91-10				-	9.6	-63.3		1943.2	D	536.	1943.0
19		✓		268-55.55				-	14.0	-63.2			OK		
20															

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CHECKED BY 1st _____

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 9.
 LINE No.(s) 107. PARTY No. 1182 DATE 12 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN S.K. WEATHER: MILD. 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												1943.2	o	531		
2		2640		89-10				+	11.8	-	26.6	1916.6	Δ			
3		✓		270-52-58				+	14.0	-	26.7		κ			
4		1760		170-40				-	12.8	+	7.7	1924.3		535		
5	W	880		270-40				-	6.3	+	3.9	1920.5		534		
6		o						-	5.4			1911.2		533		
7	E	880		71-30				-	9.0	-	32.0	1894.6		532		
8		1760		91-00				-	14.5	-	45.2	1871.4		531		
9		2640		90-50				-	7.5	-	45.9	1870.7	o	530	1870.2	
10		✓		269-18-37				-	14.0	-	45.8		κ			
11		2640	-					+	14.6	+	14.6	1885.3	Δ			
12		✓		269-50				+	6.8	+	14.5		κ			
13		1760		-1/2				-	7.6	-	9.8	-16.4		529		
14	W	880	-					-	10.9			1874.4		528		
15		o	-					-	5.3			1880.0		527		
16	E	880	-					-	4.1			1881.2		526		
17		1760		+1/2				-	8.8	+	8.8	+0.0		525		
18		2530		89-40				-	12.7	+	2.0	1887.4	o		1886.8	
19		✓		170-10				-	5.2	+	2.2	2.1	κ			
20																

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK PAGE No. 10
 LINE No.(s) 107 PARTY No. 1186 DATE 12 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN S. K. WEATHER: MILD 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												1887.4	0			
2		1870		90-20				+	11.5	+	22.4	1909.8	Δ			
3		✓		269-44-37				+	14.0	+	22.4		CK			
4		1760		269-35-55				-	14.0	-	26.3	1983.5		S24		
5	W	880	-					-	12.5			1897.3		S23		
6		0	-					-	5.3			1904.5		S22		
7	E	880	-					-	4.7			1905.1		S21		
8		1760		89-20				-	5.7	+	14.8	1924.6		S20		
9		2640		89-20				-	3.8	+	26.9	1936.7	0	S19	1936.0	
10		✓		270-50				-	11.4	+	27.0		CK			
11		880		90-40				+	12.3	+	22.5	1959.2	Δ			
12	W	✓		269-10				+	9.7	+	22.5		CK			
13		0	-					-	5.4			1953.8		S18		
14	E	770	-					-	2.4	-	2.4	1956.8	0	BM	8626	
15		✓		270-20				-	6.8	-	2.3		CK		1956.0	
16												1956.0			BARR - SURVEY.	
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK PAGE No. 11
 LINE No.(s) 107 PARTY No. 1186 DATE 13 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. L. MAN RODMAN M. R. WEATHER: WIND, 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	Correction			Center Hair	INST.			
1											1956.0	0	BM. 8626		
2													BARR-SURVEY.		
3															
4		1860	-					+ 3.8	+ 3.8	1959.8		Δ			
5		✓		270-20				+ 14.6	+ 3.8			CK			
6		1760	-					- 4.0		1955.8			517		
7	W	880	-					- 3.3		1956.5			516		
8		0	-					- 5.3		1954.5			515		
9	E	880	-					- 10.7		1949.1			514		
10		1760		- 112				- 8.4	- 8.8	- 17.2		0	513	1942.3	
11		✓		269-50				- 12.2		- 17.3		CK			
12		2640		89-40				+ 4.7		- 10.5	5.4	Δ	1932.2		
13		✓		270-30				+ 12.7		- 10.3		CK			
14		1760		270-20				- 7.5		+ 2.7			512	1934.9	
15	W	880		270-20				- 4.5		+ 0.6			511	1932.8	
16		0	-					- 5.3					510	1926.9	
17	E	880		90-40				- 5.0		- 15.2			509	1917.0	
18		1760		90-40				- 8.8		- 29.3		0	508	1902.3	
19		✓		269-30				- 14.0		- 29.4		CK			
20															

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 12
 LINE No.(s) 107 PARTY No. 1186 DATE 13 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN M. R. WEATHER: WIND. fog 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											1902.9	⊙	508	
2		2640		88-40				+	4.6	- 56.8	1846.2	Δ		
3		✓		271-30				+	12.5	- 56.6		CK		
4		1760		271-10				-	4.3	+ 31.5	1877.7		507	
5	W	820		271-10				-	6.7	+ 11.2	1857.4		506	
6		0						-	5.3		1840.9		505	
7	E.	820						-	13.7		1832.5		504	
8		1760		90-30				-	14.4	- 29.8	1816.4	⊙	503	1815.5
9		✓		269-24 27				-	12.0	- 29.9		CK		
10				24-57										
11														
12		2970		+ 1/2				+	7.7	- 14.9	- 7.2	7.0	1809.4	Δ
13		✓		270-20				+	10.2		- 6.7		CK	
14		2090		269-30				-	8.9	- 27.1	1782.3		502	
15		1210		268-30				-	8.6	- 40.3	1769.1		501	
16	W	330		268-30				-	10.8	- 19.4	1790.0		500	
17		0						-	5.3		1804.1		-	
18	E.	550		89-00				-	4.0	+ 5.6	1815.0		499	
19		1430		89-00				-	3.3	+ 21.7	1831.1	⊙	498	1829.9
20		✓		271-20				-	11.7	+ 21.6		CK		

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 13.
 LINE No.(s) 107 PARTY No. 1186 DATE 13. Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LITMAN RODMAN M. R. WEATHER: Fog, WIND. P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD		
1											1831.1	0	498		
2		2140		91.00				+ 12.2	+ 58.3	+ 58.5	1889.6	Δ			
3		✓		268.54				0.0	+ 58.7			OK			
4		1760		268.00				- 6.2	- 67.6		1822.0		497		
5	N	880		267.50				- 13.3	- 46.5		1843.1		476		
6		0	-					- 5.3			1884.3		495		
7	E	880		87.30				- 4.7	+ 33.6		1923.2	0	494	1921.7	
8		✓		272.50				- 9.7	+ 33.5			OK			
9		880		92.00				+ 9.2	+ 39.9	1963.1		Δ			
10	N	✓		218.10				+ 11.9	+ 40.0			OK			
11		0	-					- 5.4			1957.7		493		
12	E	535	-					- 3.6	- 3.6		1959.5	0	BM	8625.	
13		✓		270.30				- 8.3	- 3.6			OK		1957.9	
14											1957.9			BARR. SURVEY	
15														⊥	
16									VERTICAL		+ 1.6			L-122 SP. 434	
17									CLOSURE.					L-107 SP. 492	
18														+ 342	
19														(IRON PIPE)	
20															

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK PAGE No. 14
 LINE No.(s) 107 PARTY No. 1186 DATE 13 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN M. RESIG. WEATHER: _____ WIND COLO 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												1957.9	0	BM	8625.
2															BARR-SURVEY.
3		170		88-30				+ 8.1	- 9.4	1748.5			Δ		
4		✓		271-20				+ 6.2	- 9.4				CK		
5	W	330		271-20				- 3.9	+ 3.8			1952.3		492	
6		0	-					- 5.3				1943.2		-	
7	E	550		92-00				- 7.0	- 26.2			1922.3		491	
8		1430		92-00				- 10.0	- 59.9			1888.6		490.	
9		2310		92-00				- 14.9	- 95.5			1852.9	0	489.	1853.1
10		✓		267-50				- 8.4	- 95.7					CK	
11		1760		87-50				+ 7.5	- 59.0			1794.1		Δ	
12		✓		272-20				+ 12.9	- 58.7					CK	
13	W	880		272-20				- 6.9	+ 28.9			1823.0		488	
14		0	-					- 5.4				1788.7		487.	
15	E	880		93-00				- 7.9	- 53.9			1740.2		486	
16		1760		92-40				- 14.1	- 95.9			1698.2		485	
17		2640		92-40				- 10.5	- 133.2			1660.8	0	484	1661.4
18		✓		267-24-22				- 14.0	- 133.4					CK.	
19															
20															

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AREA _____ STATE or PROVINCE AK PAGE No. 15.
 LINE No.(s) 107 PARTY No. _____ DATE 13. Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN. 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. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											1660.8	0	404		
2		1760		87-40				+ 8.1	- 63.5	63.4	1597.4	Δ			
3		✓		272-30				+ 13.4	- 63.7			OK			
4	W	880		272-00				- 5.0	+ 25.7		1623.1		403		
5		0	-					- 5.4			1592.0		482		
6	E	420		93-20				- 12.4	- 36.8		1560.6			NUKA RIVER.	
7															
8	E	880		91-30				- 8.7	- 31.7		1565.7		481		
9		1760		-112				- 8.6	- 17.4		1580.0		480		
10		2630		88-30				- 10.6	+ 58.2	58.1	1655.5	0	477	1656.6	
11		✓		271-20				- 3.2	+ 58.0			OK			
12		1430		93-00				+ 14.7	+ 29.4	1744.9		Δ			
13		✓		266-50				+ 10.6	+ 29.5			OK			
14	W	550		266-30				- 12.3	- 45.8		1699.1		478		
15		0	-					- 5.4			1739.5		-		
16	E	330		88-30				- 4.2	+ 4.4		1749.3		477		
17		1210		88-30				- 10.9	+ 20.8		1765.7	0	476	1766.8	
18		✓		271-40				- 14.5	+ 20.7			OK			
19															
20															

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AREA _____ STATE or PROVINCE AK PAGE No. 16
 LINE No.(s) 107 PARTY No. 1186 DATE 13 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN M. RESIG WEATHER: 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												1765.7	⊙	474	
2		1760	-							+ 11.5	+ 11.5	1777.3	Δ		
3		✓		219.50						+ 11.7	11.6		ck		
4	W	000	-									1769.3		475	
5		0	-									1771.9		474	Top
6	E	000	-							- 13.4	- 13.4	1763.9	⊙	473	
7		✓		219.50						- 13.5	- 13.5		ck		1765.2
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

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AREA _____ STATE or PROVINCE AK. PAGE No. 17.
 LINE No.(s) 107 PARTY No. 1186 DATE 14 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN. RODMAN M. R. WEATHER: MILD / 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												1763.9	⊙	473	
2		1210		87-50				+	7.1	- 38.6	58.5	1725.4	▲		
3		✓		272-20				+	10.8	- 38.4			κ		
4	W	330		272-20				-	5.9	+ 7.5		1732.9		472	
5		0	-					-	5.4			1720.0		-	
6	E	550		94-20				-	5.9	- 47.3		1678.1		471	
7		1430		94-00				-	12.1	- 11.6		1613.8		470	
8		2310		91-30				-	15.0	- 75.4	75.6	1649.8	⊙	469	1651.4
9		✓		262-20				-	8.5	- 75.7			κ		
10		880		89-00				+	4.2	- 11.2		1638.6	▲		
11	W	✓		271-20				+	9.4	- 11.1			κ		
12		0	-					-	5.2			1633.4		468	
13	E	880		92-00				-	8.8	- 39.5		1599.1		467	
14		1760		92-00				-	10.1	- 71.5		1567.1		466	RIVER 465 + 1 550
15		2640		91-30				-	12.9	- 82.0		1556.5	⊙	465	
16		✓		268-20				-	5.5	- 82.3	82.1		κ		1558.4
17															
18															
19															
20															

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AREA _____ STATE or PROVINCE AK PAGE No. 18
 LINE No.(s) 107 PARTY No. 1186 DATE 14 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN M. RESIG WEATHER: MILD. 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													1556.5	⊙	465.	
2		2090		93-50				+ 14.4	+ 153.8			153.9	1710.4	Δ		
3		✓		266-00				+ 8.2	+ 154.0					CK		
4		1210		265-30				- 11.4	- 106.0				1604.4		464.	
5	W.	330		266-00				- 6.0	- 29.0				1681.4		463	
6		0	-					- 5.3					1705.1		-	
7	E.	550		87-20				- 2.9	+ 22.7				1733.1	⊙	462.	1735.2
8		✓		273-00				- 6.1	+ 22.6					CK		
9		220		91-30				+ 9.2	+ 32.6				1765.8	Δ		
10	W	✓		268-40				+ 12.3	+ 32.8			32.7		CK		
11		0	-					- 5.3					1760.5		461	
12	E	220		89-30				- 8.0	- 0.3				1765.5		460.	
13		1760		89-00				- 14.3	+ 16.4				1782.2		459.	
14		2640		89-00				- 2.4	+ 37.7				1803.3	⊙	458	1805.6
15		✓		271-06-51				- 14.0	+ 37.3			37.5		CK		
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK PAGE No. 17
 LINE No.(s) 107 PARTY No. 1186 DATE 14 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN M. REISIG WEATHER: WIND, 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	Correc-tion	Center Hair			INST.	ROD			
1												1803.3	0	458		
2		2640		71-50				+	12.8	+97.2	+	1900.7	Δ			
3		✓		268-03-16				+	8.0	+97.6	77.4		CK			
4		1760		268-00				-	4.0	-65.4		1835.3		457		
5	W	880		268-00				-	6.8	-37.5		1863.2		456		
6		0						-	5.4			1895.3		455		
7	E	880		88-50				-	4.0	+13.9		1914.6		454		
8		1760		88-48-14				-	5.0	+31.7		1932.4	0	453	1935.1	
9		✓		271-21-19				-	10.0	+31.6			CK			
10		1210		91-20				+	10.4	+32.5	+	1971.0	Δ			
11		✓		268-50				+	14.1	+32.7	38.6		CK			
12	W	330		267-40				-	14.0	-15.9		1955.1		452		
13		0						-	5.3			1965.7		-		
14	E	550		89-20				-	5.8	+0.6		1971.6		451		
15		1320		89-10				-	8.8	+10.4	+	1981.3	0		TP.	
16		✓		271-00				-	12.8	+10.2	10.3		CK		1984.2	
17																
18	SE	1760		89-50				-	8.5	-3.4	-	1967.5	□	BM	8623.	
19		✓		270-22-18				-	15.0	-3.6	3.5		CK			
20												1970.4			1970.4	

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE _____ PAGE No. 20
 LINE No.(s) 107 PARTY No. 1186 DATE 14 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR C. LYMAN RODMAN G. CONRAD WEATHER: WIND, 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.			
1											1970.4	0	B.M.	8623	
2														BARR-SURVEY	
3															
4	S.	1128		90-30				+	10.3	+ 20.1	1990.5		A		
5		✓		269-20				+	7.1	+ 20.2			CK		
6		0	-					-	6.0		1984.5			TP.	
7															
8	E	110		92-13-50				-	4.1	- 8.4	1982.1			450	
9		990		91-50				-	7.3	- 39.0	1951.5			449	
10		1870		91-44-13				-	14.0	- 70.7	1919.8	0		448 1920.0	
11		✓		268-10				-	11.0	- 70.8			CK		
12		2140		88-30				+	6.8	- 62.3	62.2 1857.6		A		
13		✓		271-40				+	14.7	- 62.1			CK		
14		1760		271-20				-	7.0	+ 33.9	1891.5			447	
15	W	880		271-20				-	8.8	+ 11.7	1869.3			446	
16		0	-					-	5.3		1852.3			445	
17	E	880		91-30				-	8.5	- 31.5	1826.1			444	
18		1760		91-30				-	14.7	- 60.8	60.9 1796.7	0		443 1797.1	
19		✓		268-20				-	9.0	- 61.0			CK		
20															

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 21.
 LINE No.(s) 107. PARTY No. 1186 DATE 14 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN G. CONRAD WEATHER: _____ WIND: _____ 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												1796.7	0	443	
2		1760		88-00				+ 4.7		- 56.7	1740.0		△		
3		✓		272-10				+ 9.9		- 56.6			CK		
4	W	380		772-10				- 7.9		+ 25.3		1765.3		442	
5		0	-					- 5.2				1734.8		441	
6	E	880		91-00				- 13.7		- 29.1		1710.9		440	
7		1760		87-30				- 11.5		+ 3.9		1743.8	0	439	1744.4
8		✓		270-20				- 6.5		+ 3.7			CK		
9		550		89-00				+ 12.8		+ 3.2	1747.0		A		
10	W	✓		270-40				+ 9.6		+ 7.2			CK		
11		0	-					- 5.6				1741.4		-	
12	E	330		92-00				- 6.2		- 17.7		1729.3		438	
13		1210		92-20				- 10.5		- 59.7		1687.3		437	
14		7090		90-20				- 10.9		- 23.1		1723.9	0	436	1724.6
15		✓		267-30				- 8.0		- 23.2			CK		
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 22.
 LINE No.(s) 107- PARTY No. 1186 DATE 14 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR C. LYMAN RODMAN S. KOHLER WEATHER: 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												1723.9	0	436.		
2		2640		91-10				+	11.6	+ 65.3	+	1789.3	A			
3		✓		268-52-53				+	14.0	+ 65.5	65.4		IK			
4		1760		268-40				-	12.7	- 53.6		1735.7		435		
5	W	880		268-40				-	6.1	- 26.6		1762.7		434		
6		0	-					-	5.6			1783.7		433.		1.5 SNOW.
7	E.	880		88-10				-	6.9	+ 21.2		1810.5		432.		
8		1760		88-10				-	11.1	+ 45.2		1834.5		431.		
9		2140		88-10				-	7.0	+ 77.4		1866.7		430.		
10		3045		88-10				-	5.9	+ 91.5	+	1880.7	0	BM		6411.
11		✓		272-00				-	14.7	+ 91.3	91.4		IK			1881.7
12												1881.7				BARR. SURVEY.
13										VERTICAL.						
14										TIE.		+ 1.0				E. C. 64 SP. 628
15																+ 406.
16																
17																L. 107 SP. 429
18																+ 475.0
19																(IRON-PIPE)
20																

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK PAGE No. 23
 LINE No.(s) 107 PARTY No. 1186 DATE 15 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN G. GONSAO WEATHER: 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											1881.7	⊙	RM. 6411	
2													2 6-64	
3													6-107	
4														
5		2240	-					+	13.9	+ 13.9	1895.8	△		
6		✓		269-50				+	7.7	+ 14.2	14.1	ck		
7		1760		- 112				-	13.1	- 9.8	- 21.9		429	
8	W	880		269-00				-	13.4	- 22.8			428	
9		0	-					-	5.2				427	
10	E	880		88-00				-	12.2	+ 18.5			426	
11		1760		88-00				-	6.9	+ 54.5			425	
12		2640		87-30				-	11.4	+ 103.6			424	
13		2970		87-30				-	9.1	+ 120.3		⊙	2016.2	
14		✓		272-35-16				-	14.0	+ 120.0	120.1	ck		
15		880		90-20				+	14.3	+ 19.4	2035.3	△		
16		✓		269-30				+	11.8	+ 19.5		ck		
17	W	330	-					-	5.6				423	
18		0	-					-	5.3				Tp.	
19	E	550		90-10				-	13.5	- 15.1			422	
20														

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK PAGE No. 24
 LINE No.(s) 107 PARTY No. 1186 DATE 15 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR C. LYMAN RODMAN _____ WEATHER: 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		1320		91-00				-	12.2	-	35.2	2000.0	0		2000.4
2		✓		268-50				-	8.5	-	35.4		OK		
3		1540		86-40				+	8.2	-	81.2	1918.9	Δ		
4		✓		273-30				+	12.8	-	81.0		OK		
5		1430		273-30				-	10.7	+	76.4	1995.3		421	
6	W	550		273-30				-	7.0	+	26.5	1945.4		420.	
7		0	-					-	5.3			1913.6		-	
8	E	330		94-16-26				-	5.0	-	29.5	1889.4		419.	
9		1210		91-24-23				-	5.0	-	34.7	1884.2		418.	
10		2090	-					-	2.5	-	2.5	1916.4	0	417	1917.0
11		✓		270-20				-	14.8	-	2.6		OK		
12		1650		88-40				+	7.1	-	31.3	1885.1	Δ		
13		✓		271-30				+	12.0	-	31.2		OK		
14	W	770		270-33-03				-	5.0	+	2.4	1887.5		416	
15		0	-					-	6.0			1879.1		-	DEEP SNOW.
16	E	110		94-00-42				-	5.0	-	12.7	1872.4		415	
17		990		92-14-20				-	5.0	-	43.6	1841.5		414	
18		1540		91-10				-	5.2	-	36.5	1848.6	0		1849.4
19		✓		269-00				-	9.6	-	36.5		OK		
20															

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 25.
 LINE No.(s) 107 PARTY No. 1122 DATE 15 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN G. CONRAD WEATHER: _____ WIND. _____ 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												1848.6	⊙			
2		1760		30-40				+ 5.5		- 35.4	1813.2		Δ			
3		✓ 1730		271-30				+ 10.7		- 35.4			ck.			
4		1730		271-10				- 8.9		+ 20.2		1833.4		413.		
5	✓	550	-					- 11.4				1801.8		412		
6		0	-					- 6.0				1807.2		-	DEED. SNOW.	
7	E	330		90-20				- 14.5		- 16.4		1796.8		411.		
8		1210		71-50				- 13.2		- 51.9		1761.3		410.		
9		2090		92-10				- 6.4		- 85.4 (25.5)		1727.7		409		
10	✓			268-00				- 12.8		- 88.7			ck.			
11		2970		91-10				- 10.2		- 70.7		1742.5		408		
12		3080		91-00				- 14.2		- 67.7	48.1	1745.1	⊙		1746.2	
13	✓			268-50				- 5.6		- 68.3			ck.			
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK. PAGE No. 26
 LINE No.(s) 107 PARTY No. 1186 DATE 16 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN - RODMAN G. CONRAD WEATHER: COLD, OVERCAST. 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												1745.1	⊙			
2		1650		87-50				+	7.0	- 55.3	1689.2		Δ			
3		✓		272-20				+	11.0	- 55.3			CK			
4	W	800		272-00				-	4.4	+ 26.3		1716.1		407		
5		0		-				-	6.5			1683.3		406		
6	E	880		92-00				-	6.8	- 37.5		1652.3		405		
7		1760		92-00				-	6.8	- 68.2		1621.6		404		
8		2640		91-40				-	13.3	- 90.1		1599.6	⊙	403	1600.9	
9		✓		268-10				-	5.9	- 90.3	10.2		CK			
10		2640		-				+	8.5	+ 8.5	1608.2		Δ			
11		✓		270-06-52				+	14.0	+ 8.7			CK			
12		1760		270-10				-	14.2	- 9.7		1599.1		462	CRK. 402+500	
13	W	880		-				-	9.1			1599.1		401		
14		0		-				-	6.0			1602.2		400	DEEP SNOW	
15	E	880		-				-	2.4			1605.8		399		
16		1760		89-30				-	5.6	+ 9.8 (+)		1617.9		398		
17		✓		270-40				-	10.9	+ 9.6 (9.7)			CK			
18		2640		89-00				-	7.3	+ 38.8		1646.8	⊙	397	1648.4	
19		✓		271-08-21				-	14.0	+ 38.5	38.6		CK			
20																

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AREA _____ STATE or PROVINCE AK. PAGE No. 27
 LINE No.(s) 107 PARTY No. 1186 DATE 16 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN G. LONRAD WEATHER: OVERCAST. 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												1646.8	0	397		
2		2640		91-40				+	11.9	+88.7	1735.5		Δ			
3		✓		268-22-35				+	14.0	+88.8			CK			
4		1760		268-40				-	11.8	-73.2		1662.3		396		
5	W	880		267-05				-	7.1	-53.1		1682.4		395		
6		0	-					-	6.0			1729.5		394	DEEP SNOW	
7	E	530		89-12				-	7.7	+0.0		1735.5	0		TP-12	
8		✓		271-20				-	12.3	+0.0			CK		1737-3	
9		2130		88-05				+	6.9	-67.4	1668.1		Δ			
10		✓		272-10				+	13.1	-67.4			CK			
11		1760		272-05				-	6.4	+55.0		1723.1		393		
12	W	880	-					-	3.1			1665.0		392		
13		0	-					-	5.2			1662.3		391		
14	E	880		94-40				-	13.0	-84.4		1583.7		390		
15		1760		93-40				-	11.9	-124.2		1543.9		389	RIVER.	
16		2640		92-05				-	13.3	-105.4		1562.7	0	388	1564.8	
17		✓		267-50				-	5.8	-105.5			CK			
18																
19																
20																

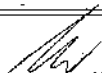
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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE _____ PAGE No. 28
 LINE No.(s) 107. PARTY No. 1186 DATE 16 Day 5 Mo. 77 -Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN M. Reilly WEATHER: SNOW. 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												1562.7	0	388		
2		1150		90-20				-	10.2	+16.7	1579.6		Δ			
3		✓		269-30				-	7.0	+17.0			OK			
4	W	280		269-30				-	14.5	-16.9		1562.7		387		
5		0	-					-	6.0			1573.6		-	Dogleg. North.	
6	E	310		86-30				-	8.3	+10.6		1590.2	0		1592.4	
7		✓		274-10				-	11.9	+10.6				OK		
8		1280	-					+	5.8	+5.8	+ 1596.1		Δ			
9		✓		270-20				+	13.4	+6.0	5.9			OK		
10		960		269-30				-	11.0	-17.4		1576.7		386		
11	W	110	-					-	7.5			1588.6		385		
12		0	-					-	6.0			1590.1		-		
13	E	770		88-00				-	3.2	+23.3		1619.4		384		
14		1630		87-10				-	4.4	+75.7	+ 5.8	1671.9	0	383	1674.2	
15		✓		273-00				-	9.5	+75.7				OK		
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK PAGE No. 29
 LINE No.(s) 107 PARTY No. 1186 DATE 16 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN M. RESIG WEATHER: SNOW / WIND 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												1671.9	0	383.	
2		1430		93-50				+ 10.0	+ 105.4	1777.3			Δ		
3		✓		266-00				+ 6.0	+ 105.5				CK.		
4	W	550		266-00				- 7.6	- 45.9			1731.4		382	
5		0						- 5.7				1771.6		-	
6	F	330		87-10				- 6.4	+ 9.9			1787.2		381	
7		505		87-30				- 7.0	+ 15.0			1792.3	0		TP. 13
8		✓		272-40				- 8.5	+ 15.0				CK		1794.7
9		1210		89-10				+ 4.4	- 13.2	13.1	1779.2		Δ		
10		✓		271-00				+ 8.1	- 13.0				CK		
11	W	505		270-10				- 3.0	- 1.5			1777.7		380	
12		0						- 5.9				1773.3		-	OLD SP. 37217758
13															PTY. 1184.
14															IRON- PIPE.
15															
16	F	375		88-10				- 7.2	+ 4.8			1784.0	0	379	LAST SR.
17		✓		271-40				- 6.1	+ 4.8				CK		PTY. 1186.
18															
19															
20															

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STADIA SURVEY NOTES

AREA _____ STATE or PROVINCE AK PAGE No. 30
 LINE No.(s) 107 PARTY No. 1186 DATE 16 Day 5 Mo. 77 Yr. BOOK No. _____
 SURVEYOR L. LYMAN RODMAN M. REIS WEATHER: SNOW P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion.			Center Hair	INST.			
1											1784.0	⊙	379		
2		2305		92-20				14.0	+ 107.6	1891.6		Δ			
3		✓		267-30				7.4	+ 107.6			CK			
4	W	1105		267-30				10.2	- 58.1		1833.5		# 6	T.S.	
5		0	-					5.7			1885.9		# 11	T.S.	
6															
7	N	260		29-00				8.1	+ 1.4		1893.0	□	BM.	8620.	
8		✓		271-30				8.3	+ 1.5			CK			
9											1875.9			BARR - SURVEY	
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

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