

STADIA SURVEY NOTES

AREA LOOKOUT RIDGE STATE OR PROVINCE ALASKA PAGE No. 1
 LINE No.(s) 89X PARTY No. 1184 DATE 11 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN _____ WEATHER: _____ P.T.S. No. _____

LINE NO.	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															
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 LOOKOUT RIDGE STATE or PROVINCE ALASKA PAGE No. 2
 LINE No.(s) 89 X PARTY No. 1184 DATE 11 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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				TAKE OFF BAS 8902							1368.2	✓		COMMON WIT	
2				34-20										SP-495 L-8	
3	S	1760		88-24-33				10.0	-33.9	-34.0	1334.2		Δ	MARKER PIPE	
4	"	1760		271-26-09				10.0	-34.1				Δ		
5	"	880		89-41-41				4.0		+0.7	1334.9	-	494		
6		0						HI		-5.6	1328.6	-	493	X	
7	N	880		89-28-25				4.0		+4.1	1338.3	-	492		
8	"	1760		88-54-11				4.0		+29.7	1363.7	-	491		
9	"	1925		88-48-41				10.0	+29.9	+30.1	1364.3	0	490-7	(490+715)	
10	"	1925		271-12-09				10.0	30.4				0		
11	S	2475		89-26-39				10.0	-14.0	-14.0	1350.3		Δ		
12	"	2475		270-33-16				10.0	-13.9				Δ		
13	"	1760		89-33-35				4.0		+9.5	1359.8	-	490		
14	"	880		89-43-20				4.0		+0.3	1350.6	-	489		
15		0						HI		-5.6	1344.7	-	488	X	
16	N	880		89-30-35				4.0		+3.5	1353.8	-	487		
17	"	1760		89-22-05				14.0	+5.4	+5.6	1355.9	0	486		
18	"	1760		270-38-40				14.0	+5.8				0		
19	S	2365		✓				7.4		+7.2	1363.1		Δ		
20	"	2365		269-57-10				5.0	6.9				Δ		

TI-588B

WORKED BY _____

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2nd _____

14.85
300 1/2

STADIA SURVEY NOTES

AREA LOOKOUT RIDGE STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) 89 X PARTY No. 1184 DATE 12 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												1363.1				
2																
3	S	1485		91-38-15				4.0		-46.4		1316.7	-	485		
4	"	605		91-42-50				4.0		-22.1		1341.0	-	484		
5		0												483-3	(483+275)	
6	N	275		91-05-25				4.0		-9.2		1353.9	-	483		
7	"	1155		88-51-55				4.0		+18.9		1382.0	-	482		
8	"	2035		88-28-53				4.0		+49.9		1413.0	-	481		
9	"	2915		88-13-56				14.0	75.9	+76.2		1439.3	0	480		
10	"	2915		271-46-37				14.0	76.4				0			
11	S	1155		93-38-00				10.0	83.2	+83.1	1522.4		Δ			
12	"	1155		266-22-40				10.0	83.0				Δ			
13	"	275		94-16-40				4.0		-24.5		1497.9	-	479		
14		0												478-6	(478+605)	
15	N	605		89-30-00				10.0	-4.7	-4.7		1517.7	0	478		
16	"	605		270-30-43				10.0	-4.6				0			
17	S	2145		✓				4.0		+3.9	1521.6		Δ			
18	"	2145		270-10-00				10.0	3.8				Δ			
19	"	1265		92-20-44				4.0		-55.8		1465.8	-	477		
20	"	385		92-32-12				4.0		-21.0		1500.6	-	476		

14.0
7.9
61
12.7
2.0
1.7

TI-588B

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AREA LOOKOUT RIDGE STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 89 X PARTY No. 1184 DATE 12 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												1521.6				
2																
3		0													475-5	π (475+495)
4	N	495		90-52-20				4.0		-11.5		1510.1	-	475		
5	"	1375		90-54-54				10.0		-33.0		1489.6	-	474		
6	"	2255		90-27-50				10.0	-28.3	-28.2		1493.4	0	473		
7	"	2255		269-32-35				10.0	-28.0				0			
8	S	1760		91-07-50				10.0	44.7	+44.7	1538.1		Δ			
9	"	1760		268-52-15				10.0	44.7				Δ			
10	"	880		93-39-00				4.0		-60.0		1478.1	-	472		
11		0						5.6		-5.6		1532.5		471	π	
12	N	90 ✓						2.5		-2.5		1535.6	0	BAS	8901	
13	"	90		270-57-20				4.0	-2.5				0			
14												1535.0 ✓		ELEV		
15												40.6				
16																
17																
18																
19																
20																

29
 2.0
 9

TI-5888

WORKED BY _____

CHECKED BY 1st _____

2nd _____

STADIA SURVEY NOTES

AREA LOOKOUT RIDGE STATE or PROVINCE ALASKA PAGE No. 5
 LINE No.(s) 89 X PARTY No. 1184 DATE 12 Day 1 Mo. 78 Yr. BOOK No.
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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			TAKE OFF			8901						1535.0			
2															
3	S	2560		90-49-04				10.0	46.5	+46.3	1581.3				
4	"	2560		269-11-35				10.0	46.1						
5	"	1760		91-10-50				4.0		-40.3	1541.0		470		
6	"	880		91-37-20				4.0		-28.9	1532.4		469		
7		0						5.6		-5.6	1575.7		468		π
8	N	880		87-18-40				4.0		+37.5	1618.8		467		
9	"	1760		87-05-05				4.0		+85.5	1666.8		466		
10	"	2640		86-52-30				10.0	133.9	+134.2	1715.5	0	465		
11	"	2640		273-08-12				10.0	134.5				0		
12	S	880		92-39-45				10.0	50.9	+50.9	1766.4		464		
13	"	880		267-20-24				10.0	50.8				463		
14		0						5.6		-5.6	1760.8		464		π
15	N	825		86-57-30				10.0	33.8	+33.8	1800.2	0	463-1		(463+55)
16	"	825		273-03-03				10.0	33.9				0		
17	W	2540		90-07-00				10.0	15.2	+15.0	1815.2		463		
18	"	2540		269-53-35				10.0	14.7				462		
19															
20															

14.8 1/2
2.0
12.8

14.2 1/2
16.0
1.8

13.7
16 1/2
2.7

STADIA SURVEY NOTES

AREA LOOKOUT RIDGE STATE or PROVINCE ALASKA PAGE No. 16
 LINE No.(s) 89 X PARTY No. 1184 DATE 13 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												1815.2				
2																
3		0														T
4	E	890	✓					2.3		-2.2		1813.0	0	BAS	78235	
5	"	890		270-11-04				5.0		-2.1			0			
6												1814.32	✓	ELEV		
7												-1.3		MISTLE		
8																
9																
10																
11																
12	E	890	✓					2.1		+2.2		1816.5		Δ		
13	"	890		89-30-20				10.0		2.3				Δ		
14		0														T
15	W	1580		90-42-42				10.0		-29.6	-29.5		1787.0	0		
16	"	1580		269-18-00				10.0		-29.3				0		
17																
18	E	2540		90-14-44				4.0		-14.9		1801.6	-	463		THIS SIDE SHOT UP
19																TAKEN BEFORE THE
20																FORESIGHT LISTED

TI-5888

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LINES 15 & 16

10.9 F
2.0 F

12.9 1/2
7.0 9

STADIA SURVEY NOTES

AREA LOOKOUT RIDGE STATE or PROVINCE ALASKA PAGE No. 7
 LINE No.(s) 89 X PARTY No. 1184 DATE 13 Day 1 Mo. 78 Yr. BOOK No.
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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. OP.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2															
3	E	800		87-43-50				10.0	-21.7	-21.7	1765.3		Δ		
4	"	800		272-16-42				10.0	-21.8				Δ		
5		0													
6	N	390		111-27-35				10.0		-152.7	1612.6		-	462	
7	"	1260		103-22-12				10.0	-30.4	-30.3	1464.0		0	461	
8	"	1260		256-38-28				10.0	-30.1				0		
9	S	2660		84-39-21				10.0	-237.7	-238.0	1226.0		Δ		
10	"	2660		275-21-21				10.0	-238.3				Δ		
11	"	1760		85-46-53				4.0		+125.5	1351.5		-	460	
12	"	880		86-27-14				4.0		+50.4	1276.4		-	459	
13		0						H) 5.6		-5.6	1220.4			458	
14	N	880		93-17-35				4.0		-54.5	1171.5		-	457	
15	"	1760		92-49-20				4.0		-90.7	1135.3		-	456	
16	"	2640		92-15-06				10.0	-113.7	-113.5	1112.5		0	455	
17	"	2640		261-45-26				10.0	-113.3				0		
18	S	2640		88-58-17				10.0	-37.4	-37.6	1074.9		Δ		
19	"	2640		271-02-17				10.0	-37.8				Δ		
20	"	1760		89-21-52				4.0		+15.5	1090.4		-	454	

13.0 F
5.0 F
10.0 F
1.0 F
41.3 1/2
3.0
6.7
14.3 1/2
1.0
1/3

TI-558B

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 8
 LINE No.(s) 89X PARTY No. 1184 DATE 14 Day L Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												1074.9				
2																
3	S	880		89-42-55				4.0		+0.4		1075.3	-	453		
4		0							H1	-5.6		1069.3	-	452		π
5	N	880		90-23-48				4.0		-10.1		1064.8	-	451		
6	"	1760		90-17-05				4.0		-12.7		1062.2	-	450		
7	"	2640		90-07-45				10.0	-16.0	-15.9		1059.0	0	449		
8	"	2640		269-52-37				10.0	-15.7				0			
9	S	2640		89-50-37				10.0	2.7	+2.5		1061.5				Δ
10	"	2640		270-10-00				10.0	2.3							Δ ₁
11	"	1760	✓					3.6		-3.6		1057.9	-	448		
12	"	880	✓					5.1		-5.1		1056.4	-	447		
13		0							H1	-5.6		1055.9	-	446		π
14	N	880		90-08-40				4.0		-6.2		1055.3	-	445		
15	"	1760		89-53-53				4.0		-0.9		1060.6	-	444		
16	"	2640		89-51-57				10.0	-3.8	-3.6		1057.9	0	443		
17	"	2640		270-08-35				10.0	-3.4				0			
18	S	2640		90-44-45				10.0	44.4	+44.4		1102.3				Δ
19	"	2640		269-15-17				10.0	44.3							Δ ₁
20	"	1760		90-59-10				14.0		-44.3		1058.0	-	442		

TI-588B

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STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 9
 LINE No.(s) 89 X PARTY No. 1184 DATE 14 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												1102.3				
2																
3	S	880		91-10	-46			10.0		-28.1		1074.2	-	441		
4		0						5.6		-5.6		1096.7		440		X
5	N	880	✓					1.8		-1.8		1100.5	-	439		THE GROUP DISTAN
6	"	1760		89-48	-00			4.0		+2.1		1104.4	-	438		STARTING WITH TP
7	"	2640		89-42	-13			5.0	8.7	+8.9		1111.2	0	437		SPREAD BETWEEN
8	"	2640		270-18	-22			5.0	9.1				0			SP'S 436 & 437, W
9	S	2640		90-19	-41			10.0	25.1	+25.1	1136.3		Δ			BE 110 FT. - 7 PIN
10	"	2640		269-40	-27			10.0	25.0				A			8 GROUPS OF 110 FT
11	"	1760		91-17	-37			4.0		-43.7		1092.6	-	436		ATOTAL OF 880 FT
12	"	880		91-47	-40			4.0		-31.6		1104.7	-	435		MARKER PIPE
13		0						5.6		+5.6		1130.7		434		X
14	N	880		89-06	-50			4.0		+9.6		1145.9	-	433		
15	"	1760		89-03	-20			5.0		+24.0		1160.3	-	432		
16	"	1980		88-58	-18			10.0	25.5	+25.6		1161.9	0	431-6		(431 & 660)
17		1980		271-02	-07			10.0	25.8				0			
18																
19																
20																

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STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 10
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 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												1161.9				
2																
3	W	380	✓					2.7		+2.7	1164.6		Δ			
4	"	380		270-21	-38			5.0	2.6				Δ			
5		0														π
6		0						5.9		-5.9		1158.7	0	BAS	78236	
7												1162.42	✓	ELEV		
8												-3.7		MISTIE		
9																
10																
11				TAKE OFF				BAS	78236		ELEV		1162.42	✓		
12																
13	NW	0						5.9		+5.9	1168.3		Δ			π
14	"	736		90-43	-05			10.0	-19.1	-19.1		1149.2	0	431		
15	"	730		89-17	-17			10.0	-19.1				0			
16	S	2970		87-23	19			5.0	-130.3	-130.3	1018.9		Δ			
17	"	2970		87-36	-37			5.0	-130.3				Δ			
18	"	2090		88-08	-25			4.0		+63.8		1082.7	-	430		
19	"	1210		88-25	-15			4.0		+28.3		1047.2	-	429		
20	"	330		90-36	57			4.0		-7.5		1011.4	-	428		

TI-566B

WORKED BY _____

CHECKED BY 1st _____

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5.8
2.0
3.814.3
7.0
7.3

STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 11
 LINE No.(s) 89 X PARTY No. 1184 DATE 14 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Finol 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												1018.9				
2																
3		0													427-5	(427+550)
4	N	550		92-18-55				4.0		-26.2		992.7	-	427		
5	"	1430		91-23-36				4.0		-38.8		980.1	-	426		
6	"	2310		90-57-11				4.0		-42.4		976.5	-	425		
7	"	3190		90-11-40				10.0	-20.8	-20.6		998.3	0	424		
8	"	3190		89-48-47				10.0	-20.4				0			
9	S	2640		91-49-30				7.0	91.1	+90.8	1089.1		A			
10	"	2640		90-11-20				7.0	90.4				A,			
11	"	1760		92-14-44				4.0		-73.0		1016.1	-	423		
12	"	880		92-39-00				4.0		-44.7		1044.4	-	422		
13		0						HI	5.6	-5.6		1083.5		421		π
14	N	880		87-39-38				4.0		+31.9		1121.0	-	420		
15	"	1760		87-40-14				4.0		+67.5		1156.6	-	419		
16	"	2640		87-35-13				14.0	97.2	+97.4		1186.5	0	418		
17	"	2640		87-25-30				14.0	97.7				0			
18	S	900		89-39-27				10.0	4.6	+4.5	1191.0		A			
19	"	900		270-21-33				10.0	4.4				A,			
20		0						HI	5.6	-5.6		1185.4		417		π

TI-588B

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STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 12
 LINE No.(s) 89 X PARTY No. 1184 DATE 15 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												1191.0				
2																
3	N	880		90-50-00				10.0	-22.8	-22.6		1168.4	0	416		
4	-	880		269-11-08				10.0	-22.5				0			
5	S	2200		89-15-44				5.0	-23.3	-23.5	1144.9		A			
6	"	2200		70-44-55				5.0	-23.7				A ₁			
7	"	1320		89-35-16				4.0		+5.5		1150.4	-	415		
8	"	440		90-12-05				4.0		-5.5		1139.4	-	414		
9		0												413-4	(413+440) π	
10	N	440	✓					5.9		-5.9		1139.0	-	413		
11	"	1320		89-04-40				4.0		+17.2		1162.1	-	412		
12	"	2200		88-51-10				14.0	30.0	+30.2		1175.1	0	411		
13	"	2200		271-09-23				14.0	30.4				0			
14	S	2640		88-33-30				5.0	-61.4	-61.6	1113.5		A			
15	-	2640		271-27-00				5.0	-61.8				A ₁			
16	"	1760		88-35-35				4.0		+39.2		1152.7	-	410		
17	"	880		88-39-33				4.0		+16.6		1130.1	-	409		
18		0						H1 5.6		-5.6		1107.9		488	π	
19	N	880		90-50-30				4.0		-16.9				407	THESE TWO SH	
20		1760		90-24-00				4.0		-16.3				406	TRANSFERED TO	

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STADIA SURVEY NOTES

AREA AWONA RIVER STATE or PROVINCE ALASKA PAGE No. 13
 LINE No.(s) 89 X PARTY No. 1184 DATE 15 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD.			
1																
2																
3															408	π
4	W	1110		88-56-36				10.0	12.1	+12.0		1125.5	0			
5	"	1110		271-08-00				10.0	12.0				0			
6	E	1440		71-53-44				10.0	57.6	+57.6	1183.1		Δ			
7	"	1440		268-06-25				10.0	57.6				Δ			
8		0														π
9	W	1760		88-10-30				10.0	+46.1	+46.0		1229.1	0			BAS 78237
10	"	1760		279-49-15				10.0	45.9				0			
11												1229.12	✓		ELEV.	
12												-0.0			MISTIE	
13																
14																
15																
16																
17																
18																
19																
20																

13.1 F
20 F
111
12.21 1/2
5.0
7.2
13.8 1/2
5.0
8.8

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STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 14
 LINE No.(s) 89 X PARTY No. 1184 DATE 15 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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			TAKE OFF			BAS 78237				ELEVATION		1229.12				
2																
3	W	1760		88-10-30				10.0	-46.1	+46.0	1183.1		Δ			
4	"	1760		271-49-15				10.0	-45.9				Δ			
5		0													X	
6	E	1440		91-53-44				10.0	57.6	-57.6		1125.5	0			
7	"	1440		268-06-25				10.0	57.6				0			
8	W	1110		88-51-36				10.0	-12.1	-12.0	1113.5		Δ			
9	"	1110		271-08-00				10.0	-12.0				Δ			
10		0												408	X	
11	N	880		90-50-30				4.0		-16.9		1096.6	-	407		
12	"	1760		90-24-00				4.0		-16.3		1097.2	-	406		
13																
14																
15																
16																
17																
18																
19																
20																

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SURVEY NOT
CONTINUED
PAGE 15

STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 15
 LINE No.(s) 89 X PARTY No. 1184 DATE 15 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											1113.5				
2															
3	N	2640	✓					2.0	-1.8		1111.7	0	405	✓	
4	"	2640		270-04-35				5.0	-1.5			0			
5	S	3520		90-46-10				14.0	61.3	+61.0	1172.7	Δ		✓	
6	"	3520		269-14-25				14.0	60.7			Δ			
7	"	2640		90-52-08				14.0		-54.0	1118.7	-	404		
8	"	1760		91-01-04				14.0		-45.3	1127.4	-	403		
9	"	880		91-01-50				14.0		-29.8	1142.9	-	402		
10		0						HI		-5.6	1167.1	-	401	π	
11	N	880		90-33-47				4.0		-12.6	1160.1	-	400		
12	"	1760		90-15-05				14.0	-21.7	-21.5	1151.2	0	399	✓	
13	"	1760		269-45-48				14.0	-21.3			0			
14	S	2640		89-06-00				5.0	-36.5	-36.7	1114.5	Δ		✓	
15	"	2640		270-54-37				5.0	-36.9			Δ			
16	"	1760		89-13-03				4.0		+20.0	1134.5	-	398		
17	"	880		89-30-48				4.0		+3.5	1118.0	-	397		
18		0						HI		-5.6	1108.9	-	396	π	
19	N	880		88-35-40				4.0		+17.5	1132.0	-	395		
20	"	1760		88-21-56				4.0		+46.2	1160.7	-	394		

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STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 16
 LINE No.(s) 89X PARTY No. 1184 DATE 16/5 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												1114.5				
2																
3	N	2640		88-21-15				4.0		+71.8		1186.3	-	393		
4	"	3190		88-20-45				14.0	78.1	+78.7		1193.2	0	392-3	(392+330)	
5	"	3190		87-40-29				14.0	79.2				0.		✓	
6	S	2970		88-38-43				5.0	-65.2	-65.7	1127.5		Δ		✓	
7	"	2970		87-22-22				5.0	-66.2				Δ			
8	"	2640		88-39-18				4.0		+58.0		1185.5	-	392		
9	"	1760		89-05-00				4.0		+24.2		1151.7	-	391		
10	"	880		89-14-10				4.0		+7.7		1135.2	-	390		
11		0						5.9		-5.9		1121.6		389	π	
12	N	880		89-58-11				4.0		-3.5		1124.0	-	388		
13	"	1760	✓					7.9		-7.9		1119.6	-	387		
14	"	2640		90-01-10				14.0	-14.9	-14.9		1112.6	0	386	✓	
15	"	2640		269-58-52				14.0	-14.9				0.			
16	S	1760		88-33-05				5.0	-39.5	-39.7	1072.9		Δ		✓	
17	"	1760		87-27-35				5.0	-39.8				Δ			
18	"	880		88-44-18				4.0		+15.4		1088.3	-	385		
19		0						5.6		-5.6		1067.3	.	384	π	
20																

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STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 17
 LINE No.(s) 89 X PARTY No. 1184 DATE 16 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												1072.9				
2																
3	N	880		90-28-27				4.0		-11.3		1061.6	-	383		
4	"	1760		90-27-19				10.0	-24.0	-23.8		1049.1	0	382	✓	
5	"	1760		269-33-27				10.0	-23.6				0			
6	S	1760		89-50-10				14.0	9.0	+8.7	1057.8		Δ		✓	
7	"	1760		270-10-47				14.0	8.5				Δ			
8	"	880		89-40-24				4.0		+1.0	1058.8		-	381		
9		0						5.6		-5.6	1052.2		-	380	π	
10	N	880		90-51-20				4.0		-17.1	1040.7		-	379		
11	"	1760		90-44-34				10.0	-32.8	-32.5	1025.3		0	378	✓	
12	"	1760		269-16-50				10.0	-32.1				0			
13	S	3080		90-12-10				10.0	20.9	+20.8	1046.1		Δ	✓		ADJUSTED T-2
14	"	3080		269-48-00				10.0	20.8				Δ			VERTICAL COLLIM
15	"	2200		90-31-55				4.0		-24.4	1021.7		-	377		
16	"	1320		92-03-15				4.0		-51.3	994.8		-	376		
17	"	440		94-25-50				4.0		-38.0	1008.1		-	375		
18	"	0														
19	N	440		88-56-15				4.0		+4.2	1050.3		-	374		(374+440)
20																10 MILE MARKER PT

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2nd

STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 18
 LINE No.(s) 89X PARTY No. 1184 DATE 16 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA WEATHER: _____ P.T.S. No. _____

11.8
5.0 1/2
6.8
14.3
3.0
11.3

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												1046.1				
2																
3	N	1320		89-02	47			10.0	12.0	+12.1		1058.2	0	373	✓	
4	"	1320		70-57	33			10.0	12.1				0			
5	S	2200		89-47	31			10.0	2.0	+1.9	1060.1		4		✓	
6	"	2200		70-12	46			10.0	1.8				4			
7	"	1320		90-09	10			4.0		-7.5		1052.6	-	372		
8	"	440		90-57	30			4.0		-11.4		1048.7	-	371		
9		0										1		370-4	(370+440)	
10	N	440		91-36	30			4.0		-16.3		1043.8	-	370		
11	"	1320		90-39	19			4.0		-19.1		1041.0	-	369		
12	"	2200		90-24	08			14.0	-29.4	-29.3		1030.8	0	368	✓	
13	"	2200		269-36	33			14.0	-29.1				0			
14	S	2640		90-06	33			14.0	19.0	+18.9	1049.7		4		✓	
15	"	2640		269-53	46			14.0	18.8				4			
16	"	1760		90-08	00			14.0		-18.1		1031.6	-	367		
17	"	880	✓					6.8		-6.3		1042.9	-	366		
18								H1 5.6		-5.6		1044.1	-	365	✗	
19	N	830		91-12	25			4.0		-22.6		1027.1	-	364		
20		1760	✓					6.3		-6.3		1043.4	-	363		

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STADIA SURVEY NOTES

AREA AWIUNA RIVER STATE or PROVINCE ALASKA PAGE No. 19
 LINE No.(s) 89 X PARTY No. 1184 DATE 16 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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 of Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												1049.7			
2															
3	N	2640		89-49-59				10.0	-2.3	-2.2		1047.5	0	362	✓ 184
4	"	2640		270-10-20				10.0	-2.1				0 _v		
5	S	2640		90-11-40				10.0	19.0	+18.9	1066.4		Δ		✓ 106
6	"	2640		269-48-25				10.0	18.9				Δ		
7	"	1760		90-30-35				4.0		-19.7		1046.7	-	361	
8	"	880		90-50-50				4.0		-17.0		1049.4	-	360	
9		0						41		-5.6		1060.8		359	π
10	W	2530		88-58-43				10.0	35.1	+35.3		1101.7	0	BAS	78239 110
11	"	2530		271-01-52				10.0	35.5			1093.9	0		✓
12															
13															ELEV
14												+7.8			MISTIE
15															
16															
17															
18															
19															
20															

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2nd _____

14.65 1/2
3.00
12.65

STADIA SURVEY NOTES

AREA ALWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 20
 LINE No.(s) 89 X PARTY No. 1184 DATE 16 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA WEATHER: _____ P.T.S. No. _____

LINE	Searing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	W	2530		88-58-43												
4	"	2530		271-01-52												
5		0														
6	N	880	✓													
7	"	880		270-09-40												
8	S	2640		89-42-03												
9	"	2640		270-17-55												
10	"	1760	✓													
11	"	880		91-13-00												
12		0														
13	N	880		89-52-00												
14	"	1760		89-53-48												
15	"	2140	✓													
16		2640		289-53-14												
17		2580		70-44-36												
18		2580		269-15-17												
19		1740		90-45-10												
20		880		9057-35												

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STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 21
 LINE No.(s) 89 X PARTY No. 1184 DATE 16 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												1074.7				
2																
3		0						171	5.6		-5.6	1069.1		349		π
4	N	880		90-15	-48				4.0		-8.0	1066.7		348		
5	"	1760	✓						5.9		-5.9	1068.8		347		
6	"	2640	✓						14.6		-14.1	1060.6	0	346		
7	"	2640		269-55	-20				10.0		-13.6		0			
8	S	1540		89-10	-35				10.0		-12.1	1048.5		Δ		
9	"	1540		270-49	-20				10.0		-12.1			Δ		
10	"	660		89-56	-06				4.0		-3.2	1045.3		345		
11		0														344-2 (344 + 22)
12	N	220		92-56	-13				4.0		-15.3	1033.2		344		
13	"	1100		91-10	-10				4.0		-26.5	1022.0		343		
14	"	1980	✓						10.5		-10.5	1038.0	0	342		
15	"	1980		270-06	-20				14.0		-10.4		0			
16	E	2100		90-54	-05				10.0	43.0	+43.1	1081.1		Δ		
17	"	2100		269-05	-46				10.0	43.1				Δ		
18	"	1720		90-43	-33				5.0		-26.8	1054.3		341		
19	"	1540		90-38	-36				5.0		-22.3	1058.3		340		
20		0														π

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STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 22
 LINE No.(s) 89 X PARTY No. 1184 DATE 17 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												1081.1				
2																
3	W	1380		89-50-20				5.0	-1.1	-1.0		1080.1	0	BAS	78240	
4	"	1380		270-10-00				5.0	-1.0				0			
5												1079.8	✓	ELEV.		
6												+0.3		MISTIE		
7																
8																
9																
10																
11				TAKE OFF			BAS	78240	ELEVATION			1079.8	✓		1079.99	
12																
13	W	1380		89-50-20				5.0	+1.1	+1.0	1080.8		Δ			
14	"	1380		270-10-00				5.0	+1.0					Δ ₁		
15		0														π
16	E	1540		90-38-36				5.0	-22.3	-22.3		1058.5	0			
17	"	1540		269-21-20				5.0	-22.3					0 ₁		
18	S	2640	✓	90-06-35				5.0	10.1	+10.0	1068.5		Δ			
19	"	2640		269-53-30				5.0	10.0					Δ ₁		
20																

TI-568B

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

11.9 1/2
5.0
6.9

STADIA SURVEY NOTES

AREA ALWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 23
 LINE No.(s) 89X PARTY No. 1184 DATE 18 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												1062.5				
2																
3	S	1760		90-12-00				4.0		-10.1		1058.4	-	339		
4	"	880		90-12-27				4.0		-7.2		1061.3	-	338		
5		0										1062.9		337		π
6	N	880		90-40-38				4.0		-14.4		1054.1	-	336		
7	"	1760		90-26-56				4.0		-17.8		1050.7	-	335		
8	"	2310		90-23-55				5.0	-21.1	-21.1		1047.4	0	334-3		(334 + 330)
9	"	2310		269-36-05				5.0	-21.1				0			
10	S	2090		89-19-03				5.0	-19.9	-19.8	1027.6		Δ			
11	"	2090		70-40-33				5.0	-19.7				Δ			
12	"	1760		89-32-46				4.0		+10.0		1037.6	-	334		
13	"	880	✓					4.0	5.8	-5.8		1021.8	-	333		
14	"	0										1022.0		332		π
15	N	880		89-20-05				4.0		+6.2		1033.8	-	331		
16	"	1760		89-12-34				10.0		+14.3		1041.9	-	330		
17	"	2640		89-00-17				10.0	35.9	+35.8		1063.4	0	329		
18	"	2640		270-59-35				10.0	35.8				0			
19																
20																

TI-588B

WORKED BY _____

CHECKED BY 1st _____

2nd _____

STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 24
 LINE No.(s) 89 X PARTY No. 1184 DATE 18 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1												1063.4				
2														329		
3	S	1100		90-37-17				10.0	21.9	+21.8	1085.2		Δ			
4	"	1100		269-23-03				10.0	21.8				Δ			
5	"	220		90-23-55				4.0		-5.5		1079.7	-	328		
6		0												327-6	(327+660)	
7	N	660		91-07-07				4.0		-16.9		1068.3	-	327		
8	"	1100		91-12-00				10.0	-33.0	-33.0		1052.2	0	326-4	(326+440)	
9	"	1100		268-48-15				10.0	-33.0				0			
10	S	1210		86-53-00				10.0	-55.8	-55.9	996.3		Δ			
11	"	1210		273-07-20				10.0	-55.9				Δ			
12	"	770		87-31-00				4.0		+29.4		1025.7	-	326		
13		0												325-1	π (325+10)	
14	N	110		94-30-45				4.0		-72.3		984.0	-	325		
15	"	990		93-50-55				4.0		-70.4		925.9	-	324		
16	"	1870		93-23-20				4.0		-114.5		881.8	-	323		
17	"	2090		93-09-25				10.0	-125.1	-125.0		871.3	0	322-6	(322+660)	
18	"	2090		266-50-54				10.0	-124.9				0			
19	S	1320		86-02-44				10.0	-81.0	-81.1	790.2		Δ			
20	"	1320		273-57-40				10.0	-81.2				Δ			

10.8
50 1/2

13.5
80 1/2
30 1/2

91 1/2
30 1/2
27

14.4
94
78 1/2

14.2
1.0

TI-588B

1220

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 25
 LINE No.(s) 89 X PARTY No. 1184 DATE 18 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.D. HELANDER RODMAN T. GARCIA 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												790.2				
2																
3	S	660		88-06	50						+17.7	807.9	-	322		
4		0												321.2		(321+20) T
5	N	220		93-37	10						-17.9	772.3	-	321		
6	"	1100		92-54	55					#	-79.1	711.1	-	320		# 59.95
7	"	1980		92-43	30						-99.1	691.1	-	319		LITE AT 5.0
8	"	2640		92-34	10						-123.4	-123.3		666.9	0	318.2
9	"	2640		267-26	05						-123.2			0,		
10	S	1650		88-03	40						-45.8	-45.7	621.2		4	
11	"	1650		271-56	10						-45.7				4,	
12	"	1430		88-23	23						+36.2		657.4	-	318	
13	"	550		89-56	11						-3.4		617.8	-	317	
14		0													316-3	(316+330)
15	N	330		93-21	05						-29.3		591.9	-	316	
16	"	1210		93-29	44						-77.8		543.4	-	315	
17	"	2090		92-48	33						-112.4	-112.3	508.9	0	314	10 MILE MARKER
18	"	2090		267-11	38						-112.3			0,		
19																
20																

TI-586B

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

STADIA SURVEY NOTES

AREA AWUNA RIVER STATE OR PROVINCE ALASKA PAGE No. 26
 LINE No.(s) 89 X PARTY No. 1184 DATE 18 Day 1 Mo. 78 Yr. BOOK No. _____
 SURVEYOR W.O. HELANDER RODMAN T. GARCIA WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction				INST.	ROD			
1												508.9				
2														314		
3	S	2640		89-58-34				10.0	8.9	+9.0	517.9		A			
4	"	2640		270-01-10				10.0	9.1				A ₁			
5	"	1760		92-27-37				4.0		-79.6		438.3	-	313		
6	"	880		92-50-10				4.0		-42.5		470.4	-	312		
7		0						5.6		-5.6		512.3	-	311	π	
8	N	880		88-30-30				4.0		+18.9		536.8	-	310		
9	"	1760		88-28-54				4.0		+42.6		560.5	-	309		
10	"	2090		88-28-50				14.0	41.1	+41.4		559.3	0	308-5		
11	"	2090		271-31-31				14.0	41.6				0			
12	S	1430		89-53-35				14.0	11.3	+11.4	570.7		A			
13	"	1430		270-05-09				14.0	11.5				A			
14	"	880		89-53-40				4.0		-2.4		568.3	-	308		
15		0						5.6		-5.6		565.1	-	307	π	
16	N	880		91-02-40				10.0		-26.0		544.7	-	306		
17	"	1754		91-20-10				4.0		-44.9		525.8	-	305	LAST SP ON L-	
18	"	1440		91-07-00				5.0	-33.1	-33.0		537.7	0		END OF LINE MARKER	
19	"	1440		268-53-07				5.0	-33.0				0		305+314 - P.I.	
20												538.4			ELSV ESTABLISHED IN	

TI-5888

WORKED BY _____

CHECKED BY 1st _____

-0.7
MISTIE
2nd

10, 2 1/2
3 0
5 2