

### STADIA SURVEY NOTES

AREA USUKTUK RIVER STATE or PROVINCE ALASKA PAGE No. 1  
 LINE No. (s) 87 PARTY No. 1184 DATE 30 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			<u>TAKE OFF SP 100</u>			<u>L-87</u>							<u>280.6</u>			<u>281.6</u>
2																
3		<u>0</u>						<u>H1</u>	<u>5.9</u>		<u>+5.9</u>	<u>286.5</u>		<u>Δ</u>	<u>100</u>	<u>τ</u> FIRST SP ON L-87
4	<u>S</u>	<u>1760</u>		<u>90-17-50</u>					<u>4.0</u>		<u>-13.1</u>		<u>273.4</u>	<u>=</u>	<u>101</u>	<u>MARKER PIPE</u>
5		<u>2530</u>		<u>90-17-00</u>					<u>14.0</u>	<u>-26.5</u>	<u>-26.5</u>		<u>260.0</u>	<u>0</u>	<u>101-4</u>	
6		<u>2530</u>		<u>269-43-07</u>					<u>14.0</u>	<u>-26.4</u>				<u>0</u>		
7	<u>N</u>	<u>2750</u>	<input checked="" type="checkbox"/>						<u>12.9</u>		<u>+12.7</u>	<u>272.7</u>		<u>Δ</u>		
8	"	<u>2750</u>		<u>269-36-55</u>					<u>10.0</u>	<u>12.5</u>				<u>Δ</u>		
9	"	<u>1760</u>		<u>91-08-27</u>					<u>4.0</u>		<u>-39.0</u>		<u>233.7</u>	<u>-</u>	<u>102</u>	
10		<u>0</u>						<u>H1</u>	<u>5.9</u>		<u>-5.9</u>		<u>266.8</u>		<u>103</u>	<u>τ</u>
11	<u>S</u>	<u>1760</u>		<u>89-33-50</u>					<u>10.0</u>		<u>+3.4</u>		<u>276.1</u>	<u>-</u>	<u>104</u>	
12	"	<u>2310</u>		<u>89-39-44</u>					<u>14.0</u>	<u>-0.4</u>	<u>-0.3</u>		<u>272.4</u>	<u>0</u>	<u>104-3</u>	
13	"	<u>2310</u>		<u>270-20-38</u>					<u>14.0</u>	<u>-0.1</u>				<u>0</u>		
14	<u>N</u>	<u>1540</u>		<u>89-18-51</u>					<u>5.0</u>	<u>-13.4</u>	<u>-13.4</u>	<u>259.0</u>		<u>Δ</u>		
15	"	<u>1540</u>		<u>270-41-03</u>					<u>5.0</u>	<u>-13.4</u>				<u>Δ</u>		
16	"	<u>330</u>	<input checked="" type="checkbox"/>						<u>2.1</u>		<u>-2.1</u>		<u>256.9</u>	<u>-</u>	<u>105</u>	
17		<u>0</u>													<u>105-2</u>	<u>τ</u>
18	<u>S</u>	<u>1430</u>		<u>89-20-05</u>					<u>4.0</u>		<u>+12.6</u>		<u>271.6</u>	<u>-</u>	<u>106</u>	
19	"	<u>1760</u>		<u>89-22-50</u>					<u>5.0</u>	<u>14.0</u>	<u>+14.0</u>		<u>273.0</u>	<u>0</u>	<u>106-2</u>	<u>RECIP ANGLE POINT</u>
20	"	<u>1760</u>		<u>270-37-07</u>					<u>5.0</u>	<u>14.0</u>				<u>0</u>		<u>(-0.9)</u>

TI-598B

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14.8  
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2.7  
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**STADIA SURVEY NOTES**

AREA USUKTUK RIVER STATE or PROVINCE ALASKA PAGE No. 2  
 LINE No.(s) 87 PARTY No. 1184 DATE 1 Day 5 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												273.0				
2															106-2	
3	N	2420		89 07	25			14.0	-23.0	-23.0	250.0		Δ			
4	"	2420		270 52	40			14.0	-23.1				Δ,			
5	"	990		89 08	40			4.0		+10.8		260.8	-	107		
6		0												107-5	π	
7	S	770		92 41	53			4.0		-40.2		209.8	-	108		
8	"	2530	✓					9.6	✓	-9.6		240.4	0	109		
9	"	2530		269 53	38			5.0	-9.7				0,			
10	N	2750	✓					13.2		+13.2	253.6		Δ			
11	"	2750		269 56	07			10.0	13.1				Δ,			
12	"	990	✓					7.3		-7.3		246.3	-	110		
13		0												110-5	π	
14	S	770	✓					7.1		-7.1		246.5	-	111		
15	"	2530		90 17	33			20.0		-32.9		220.7	-	112		
16	"	3080		90 07	31			14.0	-20.7	-20.8		232.8	0	112-3		
17	"	3080		269 52	20			14.0	-20.9				0,			
18	N	1760		90-36	14			10.0	28.5	+28.5	261.3		Δ			
19	"	1760		269 23	43			10.0	28.6				Δ,			
20	"	550		90-51	00			4.0		-12.2		249.1	-	113		

13.7 1/2  
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**STADIA SURVEY NOTES**

AREA USUKTUK RIVER STATE or PROVINCE ALASKA PAGE No. 3  
 LINE No.(s) 87 PARTY No. 1184 DATE 1 Day 5 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		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												261.3				
2																
3		0						H1	5.8		-5.8	255.5		113.3	X	RECIP ANGLE POINT ✓
4	S	1210		89 19 00					4.0		+10.4	271.7	-	114		(-0.4)
5	"	2200		89 11 24					10.0	21.1	+21.1	282.4	0	114.5		RECIP ANGLE POINT ✓
6	"	2200		270 48 43					10.0	21.2			0			(-0.8)
7	N	1540		89 40 28					14.0	5.2	+5.2	287.6				
8	"	1540		270-19-52					14.0	5.1						
9	"	770		89 35 00					4.0		+1.6	289.2	-	115		RECIP ANGLE POINT ✓
10		0												115.4	X	(-0.3)
11	S	990		91 13 20					4.0		-25.1	262.5	-	116		
12	"	1980 ✓							9.6		-9.6	278.0	0	116.5		
13	"	1980		269 51 49					5.0	-9.7			0			
14	N	1980		90 36 14					10.0	30.9	+30.8	308.8				
15	"	1980		269 24 11					10.0	30.6						
16	"	1210		90 33 22					4.0		-15.7	293.1	-	117		
17		0						H1	5.9		-5.9	302.9		117.6	X	RECIP ANGLE POINT ✓
18	S	550		90 25 17					4.0		-8.0	300.8	-	118		(-0.8)
19	"	2310		90 13 20					10.0	-19.0	-19.0	289.8	0	119		
20	"	2310		269 46 42					10.0	-18.9			0			

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### STADIA SURVEY NOTES

AREA USUKTUK RIVER STATE or PROVINCE ALASKA PAGE No. 4  
 LINE No.(s) 87 PARTY No. 1184 DATE 1 Day 5 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				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD -		
1												289.8			
2														119	
3	N	2750	✓					4.7		+4.6	294.4		Δ		
4	"	2750		270 06	56			10.0	4.5				Δ		
5	"	990		90 18	44			4.0		-9.4	285.0		-	120	From 286.0 Line
6		0												120.5	83
7	S	770		90 44	00			4.0		-13.9	280.5		-	121	
8	"	2530		90 40	13			10.0	-39.6	-39.7	254.7		0	122	255.9
9	"	2530		269 19	32			10.0	-39.8				0		
10	N	1760		89 30	30			14.5	-0.6	-0.6	254.1		Δ		
11	"	1760		270-29	37			14.5	-0.7				Δ		
12		0						HI 5.9		-5.9	248.2			123	π
13	S	1760		88 04	50			5.0		+54.0	308.1		-	124	
14	"	2090		88 06	52			10.0	58.8	+58.8	312.9		0	124-2	314.3
15	"	2090		271-53	12			10.0	58.8				0		
16	N	1430	✓					5.7		+5.6	318.5		Δ		
17	"	1430		270 10	50			10.0	5.5				Δ		
18		0						HI 5.9		-5.9	312.6			125	π
19	S	1760		91-01	23			10.0	-41.4	-41.4	277.1		0	126	278.7
20	"	1760		268 58	40			10.0	-41.4				0		

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**STADIA SURVEY NOTES**

AREA USUKTUK RIVER STATE or PROVINCE ALASKA PAGE No. 5  
 LINE No.(s) 87 PARTY No. 1184 DATE 1 Day 5 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		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											277.1				
2													126		
3	N	1430		91 34 15				10.0	49.2	+49.2	326.3	Δ			
4	"	1430		268 26 00				10.0	49.1			Δ			
5		0											126-7	π	
6	S	330	✓					2.4		-2.4	323.9	-	127		
7	"	1540	✓					11.0		-11.0	315.3	0	127-6	317.1	
8	"	1540		270 06 48				14.0	-11.0			0.			
9	N	2310		90 30 23				10.0	30.4	+30.4	345.7	Δ			
10	"	2310		269 29 36				10.0	30.4			Δ			
11	"	1760		90 42 33				4.0		-25.8	319.9	-	128		
12		0						H1 5.9		-5.9	339.8		129	π RECIP ANGLE POINT	
13	S	<del>1760</del>		<del>90 16 22</del>				<del>21.0</del>				-	<del>130</del>	(0.9)	
14	"	1210	✓					12.0		=12.0	333.7	0	129-6	335.7	
15	"	1210		269 54 34				10.0	-11.9			0.			
16															
17															
18															
19															
20															

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### STADIA SURVEY NOTES

AREA USUKTUK RIVER STATE or PROVINCE ALASKA PAGE No. 6  
 LINE No.(s) 87 PARTY No. 1184 DATE 2 Day 5 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											333.7			
2												129-6		
3	N	2310		89 29 27				5.0	-15.5	-15.5	318.2		Δ	
4	"	2310		270 30 33				5.0	-15.5				Δ	
5	"	1760		89 53 00				4.0		-0.4	317.8	-	130 MARKER PIPE	
6		0						5.9		-5.9	312.3	-	131 π	
7	S	1760		89 30 22				4.0		+11.2	329.4	-	132	
8	"	2530		89 29 22				10.0	12.5	+12.6	330.8	0	132-4 333.1	
9	"	2530		270 30 52				10.0	12.7			0		
10	N	2200		90 22 28				10.0	24.4	+24.4	355.2		Δ	
11	"	2200		269 37 40				10.0	24.3				Δ	
12	"	1210		90 34 47				4.0		-16.2	339.0	-	133	
13		0											133-6 π	
14	S	550		91 18 33				4.0		-16.6	338.6	-	134	
15	"	2310 ✓						9.4		-9.3	345.9	0	135 348.5	
16	"	2310		269 53 45				5.0	-9.2				0	
17	N	2530		89 41 15				5.0	-8.8	-8.9	337.0		Δ	
18	"	2530		270 19 00				5.0	-9.0				Δ	
19	-	970		92 56 10				4.0		-43.4	293.6	-	136	
20		0											136-4 π	

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### STADIA SURVEY NOTES

AREA PAHRON CREEK STATE or PROVINCE ALASKA PAGE No. 7  
 LINE No.(s) 87 PARTY No. 1184 DATE 2 Day 5 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		AB.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												337.0				
2																
3	S	990		<del>88 02 13</del>										-	137	
4	"	990		87 59 45					29.6	+29.6		366.6	0	137	369.4	
5	"	990		272 00 30					29.7				0			
6	N	770		90 14 20					17.2	+17.2		383.8	Δ			
7	"	770		289 45 40					17.2				Δ			
8		0						41	5.8		-5.8	378.0		137-4		⊗ RECP ANGLE POINT ✓
9	S	790		90 37 52					14.0	-24.9	-24.9	358.9	0	138	361.8	(+1.4)
10	"	790		269 22 11					14.0	-24.9			0			
11	N	2530		86 30 42					10.0	-143.9	-143.9	215.0	Δ			
12	"	2530		273 29 08					10.0	-143.8			Δ			
13	"	770		86 34 10							+42.1	257.1	-	139		
14		0												139-4		⊗
15	S	990		89 05 31					4.0		+11.7	226.7	-	140		
16	"	2750		88 26 14					5.0	70.0	+70.1	285.1	0	141	288.3	
17	"	2750		271 34 04					5.0	70.2			0			
18	N	1760		89 55 26					14.0	11.7	+11.7	296.8	Δ			
19	"	1760		270 04 34					14.0	11.7			Δ			
20		0						H1	5.9		-5.9	290.9		142		⊗

TI-598B

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### STADIA SURVEY NOTES

AREA PAHRON CREEK STATE or PROVINCE ALASKA PAGE No. 8  
 LINE No.(s) 87 PARTY No. 1184 DATE 2 Day 5 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.	ROD		
1												296.8			
2															
3	S	1760		90 41	47			10.0	-31.4	-31.3		265.5	0	143	268.9
4	"	1760		269 18	40			10.0	-31.2				0		
5	N	2750		90 38	17			10.0	40.6	+40.6	306.1		Δ		
6	"	2750		269 21	55			10.0	40.5				Δ		
7	"	990		93 23	30			4.0		-62.6		243.5	-	144	
8		0												144-5 π	
9	S	770		87 40	00			4.0		+27.3		333.4	-	145	
10	"	1540		87 42	40			14.0	47.5	+47.6		353.7	0	145-4	357.4
11	"	1540		272 17	43			14.0	47.7				0		
12	N	990		90 27	35			10.0	17.9	+17.9	371.6		Δ		
13	"	990		269 32	25			10.0	17.9				Δ		
14		0						MI 5.8		-5.8		365.8		146	π RECIPABLE POINT ✓
15	S	990	✓					13.4		-13.4		358.2	0	146-5	(+1.5)
16	"	990		269 48	24			10.0	13.3				0		362
17	N	1760		89 36	05			5.0	-7.2	-7.2	351.0		Δ		
18	"	1760		270 24	00			5.0	-7.3				Δ		
19	"	990		89 42	15			4.0		+1.1		352.1	-	147	
20		0												147-5 π	

TI-588B

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21.5  
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**STADIA SURVEY NOTES**

AREA PAHRON CREEK STATE or PROVINCE ALASKA PAGE No. 9  
 LINE No.(s) 87 PARTY No. 1184 DATE 2 Day 5 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		A.B.S. OF P.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1												351.0				
2																
3	S	770		91 45	30			4.0		-27.6		323.4	-	148		
4	"	1760		90 52	33			10.0	-36.9	-36.9		314.1	0	148-5	318.1	
5	"	1760		269 07	44			10.0	-36.8				0			
6	N	1760		92 15	21			14.0	83.3	+83.3	397.4		Δ			
7	"	1760		267 44	50			14.0	83.2				Δ			
8	"	990		92 19	52			4.0		-44.3		359.1	-	149		
9		0												149-5	π	
10	S	770		88 30	35			4.0		+16.0		413.4	-	150		
11	"	1760		88 35	20			14.0	29.3	+29.4		426.8	0	150-5	431.0	
12	"	1760		271 24	54			14.0	29.5				0			
13	N	2860		90 27	57			10.0	33.3	+33.3	460.1		Δ			
14	"	2860		269 31	54			10.0	33.4				Δ			
15	"	2090		90 46	33			4.0		-32.3		427.8	-	151		
16	"	330		90 59	30			4.0		-9.7		450.4	-	152		
17		0						H1	5.8	-5.8		454.3		152-2	π	RECIPROCAL POINT ✓
18	S	1430		91 23	26			20.0		-58.9		401.2	-	153		(71.5)
19	"	2640		90 33	17			10.0	-35.6	-35.6		424.5	0	153-6	429.0	
20	"	2640		269 26	37			10.0	-35.6				0			

10.8  
2.8  
8.8  
11.2

14.8  
0.5  
14.3

14.7  
1.5  
13.2

TI-588B

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### STADIA SURVEY NOTES

AREA PAHRON CREEK STATE or PROVINCE ALASKA PAGE No. 10  
 LINE No.(s) 87 PARTY No. 1184 DATE 2 Day 5 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												424.5				
2															153-6	
3	N	2640		91 49 03				10.0	93.7	+93.7	518.2		Δ			
4	"	2640		268 11 03				10.0	93.7				Δ			
5	"	2090		92 16 33				4.0		-87.0		431.2	-	154		
6	"	330		92 16 25				4.0		-17.1		501.1	-	155		
7		0												155-2	π	
8	S	1430		89 38 14				10.0		-0.9		517.3	-	156		
9	"	440		89 24 44				5.8		-1.3		516.9	-	155-4	RECIP ANGLE POINT	
10	"	3190		89 43 30				10.0	5.3	+5.5		523.7	0	157	528.6	(-0.8)
11	"	3190		270 16 52				10.0	5.7				0.			
12	N	2310		89 16 36				14.0	-15.2	-15.2	508.5		Δ			
13	"	2310		270 43 28				14.0	-15.2				Δ			
14	"	550		88 55 30				4.0		+6.3		514.8	-	158		
15		0												158-3	π	
16	S	1210		91 42 18				4.0		-40.0		468.5	-	159		
17	"	2970		91 17 41				10.0	-77.1	-77.0		431.5	0	160	MARKER PIPE	
18	"	2970		268 42 30				10.0	-76.9				0.		436.7	
19																
20																

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2nd \_\_\_\_\_

14.7 1/2  
3.5  
13.2

14.0 1/2  
2.6

15.3  
0.5 1/2  
14.8

### STADIA SURVEY NOTES

AREA PAHRON CREEK STATE or PROVINCE ALASKA PAGE No. 11  
 LINE No.(s) 87 PARTY No. 1184 DATE 2 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR W D HELDNER 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											431.5			
2												160		
3	N	1430		90 39	37			10.0	24.4	+24.4	455.9	Δ		
4	"	1430		269 25	33			10.0	24.3			Δ <sub>1</sub>		
5		0										160-7	X	
6	S	330		91 13	23			4.0		-11.0	444.9	-	161	
7	"	1320		90 33	00			10.0	-22.7	-22.6	433.3	0	161-5 438.6	
8	"	1320		29 27	23			10.0	-22.5			0 <sub>1</sub>		
9	N	2530		91 32	00			10.0	77.7	+77.6	510.9	Δ		
10	"	2530		268 28	13			10.0	77.5			Δ <sub>1</sub>		
11	"	1760		91 31	50			4.0	10.0	-57.0	453.9	-	162	
12		0						H1 5.9		-5.9	505.0		163 X	
13	S	1760		89 16	25			5.0	17.3	+17.3	528.2	0	164 RECP ANGLE POINT ✓	
14	"	1760		270 43	42			5.0	17.4			0 <sub>1</sub>	533.8 (52.2)	
15	N	2530		89 48	40			10.0	1.7	+1.7	529.9	Δ		
16	"	2530		270 11	20			10.0	1.7			Δ <sub>1</sub>		
17	"	770		89 41	22			4.0		+0.2	530.1	-	165	
18		0											165- X	
19	S	990		90 12	00			4.0		-7.5	522.4	-	166	
20														

TI-588B

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### STADIA SURVEY NOTES

AREA PAHRON CREEK STATE or PROVINCE ALASKA PAGE No. 12  
 LINE No.(s) 87 PARTY No. 1184 DATE 3 Day 5 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		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												529.9				
2																
3	S	2750	✓					14.5		-14.4		515.5	0	167	521.4	
4	"	2750		269 54	42			10.0		-14.2			0			
5	N	2090		90 42	47			10.0		36.0	+36.0	551.5	Δ			
6	"	2090		269 17	27			10.0		35.9			Δ			
7	"	330		91 11	00			4.0		-10.8		540.7	-	168		
8		0												168-2	π	
9	S	1430		89 10	53			4.0		+16.4		567.9	-	169		
10	"	2200		89 16	23			13.5		+14.4		565.9	0	169-4	572.1	
11	"	2200		270 43	39			13.5		14.4			0			
12	N	1980		89 20	51			5.0		-17.5	-17.6	548.3	Δ			
13	"	1980		270 39	22			5.0		-17.7			Δ			
14	"	990		90 36	20			4.0		-14.5		533.8	-	170		
15		0												170-5	π	
16	S	770		88 28	00			4.0		+16.6		564.9	-	171		
17	"	1760		88 29	50			5.0		41.2	+41.2	589.5	0	171-5	REC'D ANGLE POINT ✓	
18	"	1760		271 30	20			5.0		41.2			0		595.9	(+1.9)
19																
20																

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**STADIA SURVEY NOTES**

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 13  
 LINE No.(s) 87 PARTY No. 1184 DATE 3 Day 5 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		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												589.5				
2														171-5		
3	N	2530		87 53	47			5.0	-87.9	-88.0	501.5		Δ			
4	"	2530		272 06	33			5.0	-88.1				Δ			
5	"	1760		87 51	35			4.0		+61.7		563.2	-	172		
6		0						5.9		-5.9		495.6		173	π	
7	S	1760		90 20	22			4.0		-14.4		487.1	-	174		
8	"	2530		90 17	50			10.0	-23.1	-23.0		478.5	0	174-4	485.2	
9	"	2530		269 42	27			10.0	-22.9				0			
10	N	1980		89 40	13			5.0	-6.4	-6.4	472.1		Δ			
11	"	1980		270 19	50			5.0	-6.4				Δ			
12	"	990	✓					4.0	1.4	-1.4		470.7	-	175		
13		0												175-5	π	
14	S	770		90 49	40			6.0		-17.1		455.0	-	176	RECIP ANGLE POINT	-2.5
15	"	1540		90 54	20			10.0	-34.3	-34.3		437.8	0	176-4	444.7	
16	"	1540		269 05	48			10.0	-34.3				0			
17	N	1980		87 58	10			5.0	-65.2	-65.2	372.6		Δ			
18	"	1980		272 01	56			5.0	-65.2				Δ			
19	"	990		87 56	00			4.0		+31.7		404.3	-	177		
20		0												177-5	π	

TI-588B

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14.9  
5.2  
9.9

13.7  
4.0  
7.7

14.9  
5.2  
9.9

**STADIA SURVEY NOTES**

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 14  
 LINE No.(s) 87 PARTY No. 1184 DATE 3 Day 5 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.	ROD		
1												372.6			
2															
3	S	770		92 46	00			4.0		-41.2		331.4	-	178	
4	"	2530		91 57	00			10.0	-96.1	-96.1		276.5	0	179	283.7
5	"	2530		268 03	08			10.0	-96.0				0		
6	N	1210		91 21	35			14.5	43.2	+43.2	319.7		Δ		
7	"	1210		268 38	33			14.5	43.2				Δ		
8		0												179-6	X
9	S	550	✓					2.0		-2.0		317.7	-	180	
10	"	1320	✓					3.6		-3.6		316.1	0	180-4	323.4
11	"	1320		270 04	00			5.0	-3.5				0		
12	N	2200	✓					7.7		+7.7	323.8		Δ		
13	"	2200		270 03	45			10.0	7.6				Δ		
14	"	1210	✓					4.8		-4.8		319.0	-	181	
15		0												181-6	X
16	S	550		89 29	50			4.0		+0.8		324.6	-	182	
17	"	1760		88 38	20			6.0		+35.8		359.6	-	182-6	RECIP ANGLE POINT ✓
18	"	2200		88 40	36			14.0	36.8	+36.9		360.7	0	182-8	368.3 (-2.7)
19	"	2200		271 19	48			14.0	37.1				0		
20															

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### STADIA SURVEY NOTES

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 15  
 LINE No.(s) 87 PARTY No. 1184 DATE 3 Day 5 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		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												360.7				
2														182-8		
3	N	2200		87 49	22			10.0	-73.6	-73.6	287.1		Δ			
4	"	2200		72 10	35			10.0	-73.5				Δ			
5	"	2090		87 53	00			4.0		+73.2		360.3	-	183		
6	"	330		94 15	50			4.0		-28.5		258.6	-	184		
7		0												184-2	π	
8	S	1430		87 30	00			4.0		+58.4		345.5	-	185		
9	"	2200		87 34	33			10.0	83.1	+83.1		370.2	0	185-4	378.0	
10	"	2200		72 25	28			10.0	83.1				0			
11	N	2200		90 48	10			10.0	40.8	+40.8	411.0		Δ			
12	"	2200		269 12	00			10.0	40.7				Δ			
13	"	1210		91 19	00			4.0		-31.8		379.2	-	186		
14		0												186-6	π	
15	S	550	✓					0.6		-0.6		410.4	-	187		
16	"	1980		88 32	25			10.0	40.4	+40.4		451.4	0	187-7	RECIPROCAL POINT	3.6
17	"	1980		271 27	40			10.0	40.5				0		459.5	
18	N	1760		88 55	30			5.0	-28.0	-28.1	423.3		Δ			
19	"	1760		271 04	50			5.0	-28.2				Δ			
20	"	1430		88 55	20			4.0		+22.9		446.2	-	188		

TI-588B

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13.0  
2.0  
11.0

13.8 1/2  
5.0

### STADIA SURVEY NOTES

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 16  
 LINE No.(s) 87 PARTY No. 1184 DATE 3 Day 5 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		B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1										423.3				THE SPREAD BETWEEN	
2		0										Δ	188-7	SP188-7 AND SP188-8 IS	
3	S	220		93 18 10				4.0	-16.7		406.6	-	189	ONLY 110' - NOT 220' -	
4	-	1980	✓					6.7	-6.6		416.7	0	190	CLIENT APPROVED	
5	-	1980		270 06 00				10.0	-6.5			0		MARKER PIPE AT 190	
6	N	1760		91 28 22				10.0	55.2	+55.2	471.9	Δ		425.0	
7	N	1760		968 31 53				10.0	55.1			Δ			
8	"	0					HI	5.9		-5.9			191	Δ	
9	S	1210		89 21 18				6.0	7.6	+7.6	479.5	0	191-6	488.0	
10	"	1210		270 38 38				6.0	7.6			0			
11	N	1760		90 13 05				10.0	16.2	+16.2	495.7	Δ			
12	"	1760		289 48 00				10.0	16.1			Δ			
13	"	1210		90 47 27				4.0		-20.7			192		
14		0											192-6	Δ	
15	S	550		91 12 15				4.0		-15.6			193		
16	"	1760		88 54 56				5.0	28.3	+28.3	524.0	0	193-6	532.7	
17	-	1760		271 05 10				5.0	28.4			0			
18	N	880		93 18 40				10.0	60.8	+60.8	584.8	Δ			
19	"	880		266 41 27				10.0	60.8			Δ			
20	-	330		93 00 00				4.0		-21.3			194		

TI-588B

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2nd \_\_\_\_\_

21.2  
 6.0  
 13.8 1/2  
 5.0  
 11.8 1/2  
 3.0  
 2.0 1/2  
 9.9  
 2.0  
 11.2  
 2.0  
 13.8 1/2  
 5.0  
 14.1 1/2  
 1.0



### STADIA SURVEY NOTES

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 17  
 LINE No.(s) 87 PARTY No. 1184 DATE 4 Day 5 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												584.8				
2																
3		0												194-2	π	
4	S	1430		89 04 00				8.0	18.3	+18.3		603.1	0	195	611.9	
5	"	1430		270 56 17				5.0	18.4				0			
6	N	2310		90 55 48				10.0	47.5	+47.5	650.6		Δ			
7	"	2310		269 04 22				10.0	47.4				Δ			
8	"	550		91 40 33				4.0		-20.1	630.5		-	196		
9		0												196-3	π	
10	S	1210		89 31 15				4.0		+6.1	656.7		-	197		
11	"	1320		89 32 44				5.0	5.5	+5.5	656.1		0	197.1	665.1	
12	"	1320		270 27 23				5.0	5.5				0			
13	N	3410		89 40 23				5.0	-14.5	-14.6	641.5		Δ			
14	"	3410		270 19 50				5.0	-14.7				Δ			
15	"	1760		92 30 44				4.0		-81.1	560.4		-	198		
16		0						5.9		-5.9	635.6		-	199	π	
17	S	1760		87 38 50				4.0		+68.3	709.8		-	200		
18	"	3520		86 44 44				5.0	194.8	+194.9	836.4		0	201	845.8	
19	"	3520		273 15 25				5.0	195.0				0			
20																

TI-588B

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STADIA SURVEY NOTES

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 18  
 LINE No.(s) 87 PARTY No. 1184 DATE 4 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR W D HELANDER RODMAN D JENSEN WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

13.1  
1.0 F  
12.1

14.4  
1.0 1/2  
1.4

13.7 F  
1.0  
2.7

5.15 F  
4.00  
1.15

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											836.4				
2													201		
3	N	1210		98 09	45			10.0	181.8	+181.8	1018.2		Δ		
4	"	1210		261 50	28			10.0	181.7				Δ		
5		0											201-6	π	
6	S	550		84 38	44			4.0		+47.3	1063.5	-	202		
7	"	880		84 42	22			10.0	71.2	+71.2	1089.4	0	202-2	1099.0	
8	"	880		275 17	33			10.0	71.2				0		
9	N	270		90 26	05			14.0	16.0	+16.0	1105.4		Δ	INTERSECTION:	
10	"	270		269 34	16			14.0	16.0				Δ	L-87 SP 202+600	
11		0					H1	5.8		-5.8			202+600	π L-138 SP 1118+600	
12	E	600		90 47	00			4.0		-12.2	1093.2	-	1118	L-138 MARKER PIPE	
13	W	113	✓					5.2		-5.2	1100.2	0	895 8701		
14	"	113		269 25	25			4.0	-5.1				0		
15											1109.8		ELEV	1109.8	
16															
17											-9.6		MISTIE		
18															
19															
20															

TI-588B

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2nd \_\_\_\_\_

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**STADIA SURVEY NOTES**

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 19  
 LINE No.(s) 87 PARTY No. 1184 DATE 4 Day 5 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	870				1109.8			
2														
3	W	113	✓					5.2	+5.2	1115.0	Δ			
4	"	113		269 25	25			4.0	+5.1		Δ			
5		0										202+600 X		
6	S	830	✓					14.1	-14.1	1100.9	0	202-7 1101.0		
7	"	830		269 43	17			10.0	-14.0		0			
8	N	2640		89 28	10			10.0	-14.4	+14.5	1086.4	Δ		
9	"	2640		270 32	05			10.0	-14.6		Δ			
10	"	2310		89 44	40			4.0	+6.3		1092.7	-	203	
11	"	550		91 27	00			4.0	-17.9		1068.5	-	204	
12		0										204-3 X		
13	S	1210		89 33	40			10.0	-0.7		1085.7	-	205	
14	"	1540		89 44	44			5.0	1.8	+1.9	1088.3	0	205-2 1088.9	
15	"	1540		270 15	33			5.0	2.0			0		
16	N	2200		89 01	40			10.0	-27.3	-27.4	1060.9	Δ		
17	"	2200		270 58	46			10.0	-27.6			Δ		
18	"	770		89 04	50			4.0	+8.4		1069.3	-	206	
19		0											206-4	
20	S.	990		90 24	00			4.0	-10.9		1056.0	-	207	

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**STADIA SURVEY NOTES**

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 20  
 LINE No.(s) 87 PARTY No. 1184 DATE 4 Day 5 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				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												1060.9				
2																
3	S	2750		89 47	00			5.0	5.4	+5.6		1066.5	0	208	1067.7	
4	"	2750		270 13	40			5.0	5.9				0			
5	N	2970		90 07	20			10.0	16.3	+16.2	1082.7		Δ			
6	"	2970		269 52	55			10.0	16.1				Δ			
7	"	1210		90 47	44			4.0		-20.8		1061.9	-	209		
8		0												209-6	X	
9	S	550		91 34	00			4.0		-19.0		1063.7	-	210		
10	"	2310		90 59	15			10.0	-49.8	-49.7		1033.0	0	211	1034.8	
11	"	2310		269 01	00			10.0	-49.6				0			
12	N	2090		89 40	00			10.0	-2.2	-2.2	1030.8		Δ			
13	"	2090		270 20	00			10.0	-2.2				Δ			
14	"	330		90 10	00			4.0		-5.0		1025.8	-	212		
15		0												212-2	X	
16	S	1430		89 36	30			4.0		+5.8		1036.6	-	213		
17	"	2200		89 32	40			10.0	7.5	+7.5		1038.3	0	213-4	1040.6	
18	"	2200		270 27	34			10.0	7.5				0			
19																
20																

TI-588B

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**STADIA SURVEY NOTES**

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 21  
 LINE No.(s) 87 PARTY No. 1184 DATE 4 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR WD HELANDER RODMAN DJENSEN 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													1038.3			
2															213-4	
3	N	2750		89 43	50			10.0	-2.9	-2.9	1035.4			Δ		
4	"	2750		87 16	10			10.0	-2.9					Δ		
5	"	1760		89 47	15			4.0		+2.5			1037.9	-	214	
6		0						H/ 5.9		-5.9			1029.5		215	X
7	W	430		88 52	25			5.0	3.5	+3.5			1038.9	0	BAS 8702	1041.6
8	"	430		87 07	33			5.0	3.4					0		
9													1041.6			TRUE ELEVATION
10													<del>1041.6</del>			
11													-2.7			MISTLE
12																
13																
14																
15																
16																
17																
18																
19																
20																

TI-588B

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LINE 87

**STADIA SURVEY NOTES**

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 22  
 LINE No.(s) 87 PARTY No. 1184 DATE 4 Day 5 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		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1			TAKE OFF			RAS 8702							1041.6			
2																
3	W	430		88 52	25				5.0	-3.5	-3.5	1038.1		Δ		
4	"	430		271 07	33				5.0	-3.4				Δ		
5		0						HI	5.9		-5.9	1032.2			215	π <del>1048.4</del>
6	S	1760		89 30	20				5.0	10.2	+10.2	1048.3		0	216	12-FOLD SPREAD
7	"	1760		270 29	55				5.0	10.3				0		BEGINS WITH THE
8	N	2640		89 47	56				10.0	0.7	+0.6	1048.9		Δ		DISTANCE BETWEEN
9	"	2640		270 12	20				10.0	0.5				Δ		SP216 & SP217
10	"	1760		89 48	50				4.0		+1.7	1050.6	-		217	BEING 880'
11	"	880		89 47	00				4.0		-0.7	1048.2	-		218	
12		0						HI	5.9		-5.9	1043.0			219	π
13	S	880		91 10	00				4.0		-21.9	1027.0	-		220	
14	"	1760		90 25	40				4.0		-17.1	1031.8	-		221	
15	"	2640		89 40	46				10.0	4.8	+4.9	1053.8	0		222	1054.1
16	"	2640		270 19	42				10.0	5.1				0		
17	N	2640		90 37	55				10.0	39.1	+39.0	1092.8		Δ		
18	"	2640		269 22	20				10.0	38.9				Δ		
19	"	1760		90 45	28				4.0		-27.3	1065.5	-		223	
20	"	880		90 49	15				4.0		-16.6	1076.2	-		224	

TI-588B

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**STADIA SURVEY NOTES**

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 23  
 LINE No.(s) 87 PARTY No. 1184 DATE 5 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR W.D. HELINDER 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												1092.8				
2																
3		0						H1	5.9		-5.9	1086.9		225		T
4	S	880		88 50	44				5.0	12.7	+12.7	1105.5	0	226		1106.0
5	"	880		271 09	20				5.0	12.7			0			
6	N	2640	✓						9.8		+9.7	1115.2				
7	"	2640		269 54	00				5.0	9.6						
8	"	1760		90 09	10				4.0		-8.7	1106.5	-	227		
9	"	880		90 09	00				4.0		-6.3	1108.9	-	228		
10		0						H1	5.9		-5.9	1109.3		229		T
11	S	880		89 24	22				4.0		+5.1	1120.3	-	230		
12	"	1760		88 55	00				4.0		+29.3	1149.5	-	231		
13	"	2640		88 27	55				4.0		+66.7	1181.9	-	232		
14	"	3520		88 07	40				5.0	110.0	+109.9	1225.1	0	233		1225.8
15	"	3520		271 52	11				5.0	109.8			0			
16	N	1210		91 39	48				10.0	45.1	+45.1	1270.2				
17	"	1210		268 20	19				10.0	45.1						
18	"	330		91 59	00				4.0		-15.4	1254.8	-	234		
19		0												234		T
20																

TI-588B

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2nd \_\_\_\_\_

### STADIA SURVEY NOTES

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 24  
 LINE No.(s) 87 PARTY No. 1184 DATE 5 Day 5 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		ΔB.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												1270.2				
2																
3	NW	90		89 23	52				6.0	-5.1	-5.1		1265.1	0	BAS 8703	1265.9
4	"	90		270 36	40				6.0	-5.0				0		
5																
6												1265.9			TRUE	ELEVATION
7																
8												-0.8			MISTLE	
9																
10																
11																
12			TAKE OFF BAS				8703						1265.9			
13																
14		90		89 23	52				6.0	+5.1	+5.1	1271.0		Δ		
15		90		270 36	40				6.0	+5.0				Δ		
16		0														
17	S	550		90 63	44				4.0		-12.6	1258.4		-	235	
18	"	1430		90 44	50				4.0		-22.6	1248.4		-	236	
19	"	2310		90 31	08				10.0	-30.9	-31.0	1240.0		0	237	
20	"	2310		269 28	33				10.0	-31.1				0		

6.9  
10.0

18.6  
10.6  
1.6

TI-588B

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**STADIA SURVEY NOTES**

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 25  
 LINE No.(s) 87 PARTY No. 1184 DATE 5 Day 5 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		A.B.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												1240.0				
2															237	
3	N	2970		89 51	24				5.0	-2.4	-2.5	1237.5		Δ		
4	"	2970		87 08	50				5.0	-2.6				Δ		
5	"	2090		90 19	45				4.0		-16.0	1221.5	-		238	
6	"	1210		91 45	45				4.0		-41.2	1196.3	-		239	
7	"	330		93 11	00				4.0		-22.3	1215.2	-		240	
8		0													240-2	π
9	S	550	✓						3.9		-3.9	1233.6	-		241	
10	"	1430		89 23	00				4.0		+11.4	1248.9	-		242	
11	"	2310		89 15	45				14.0		+15.7	1253.2	-		243	
12	"	3190		89 03	25				5.0	47.5	+47.6	1285.1	0		244	
13	"	3190		87 56	46				5.0	47.7			0,			
14	N	550	✓						12.7		+12.7	1297.8		Δ		
15	"	550		86 43	50				10.0	12.6				Δ		
16		0													244-3	π
17	S	330		91 02	47				10.0	-16.0	-16.0	1281.8	0		245	
18	"	330		86 57	33				10.0	-16.0			0,			
19																
20																

TI-588B

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**STADIA SURVEY NOTES**

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 26  
 LINE No.(s) 87 PARTY No. 1184 DATE 5 Day 5 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.			
1											1281.8				
2													245		
3	N	3520		89 39	55			5.0	-15.6	-15.7	1266.1		Δ		
4	"	3520		270 20	20			5.0	-15.8				Δ		
5	"	2640		90 19	40			4.0		-19.1	1247.0		-	246	
6	"	1760		90 26	20			4.0		-17.5	1248.6		-	247	
7	"	880		91 07	33			4.0		-21.3	1244.8		-	248 MARKER PIPES	
8		0						5.9		-5.9	1260.2			249 X	
9	S	880		92 04	50			4.0		-35.9	1230.2		-	250	
10	"	1760	✓					2.3		-2.3	1263.8		-	251	
11	"	2640		89 06	20			5.0	36.2	+36.4	1302.5	0		252	
12	"	2640		270 54	10			5.0	36.6				0		
13	N	3520		89 26	17			10.0	-24.5	-24.6	1277.9		Δ		
14	"	3520		270 33	56			10.0	-24.7				Δ		
15	"	2640		89 39	25			4.0		+11.8	1289.7		-	253	
16	"	1760		90 48	50			4.0		-29.0	1248.9		-	254	
17	"	880		91 09	44			4.0		-21.8	1256.1		-	255	
18		0						HI 5.9		-5.9	1272.0			256 X	
19	S	880		91 24	30			4.0		-24.6	1253.3		-	257 1252.5	
20	"	1760		90 32	30			4.0		-20.6	1257.3		-	258	

TI-588B

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**STADIA SURVEY NOTES**

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 27  
 LINE No.(s) 87 PARTY No. 1184 DATE 5 Day 5 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		Δ B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												1277.9				
2																
3	S	2640		90 25 15				4.0		-23.4		1254.5	-	259		
4	"	3520		90 08 23				10.0	-18.6	-18.5		1259.4	0	260		
5	"	3520		269 51 54				10.0	-18.3				0			
6	W	250	✓					7.5		+7.5	1266.9		Δ			
7	"	250		269 25 48				5.0	7.5				Δ			
8		0						4.1		-6.0		1260.9		BAS 870# 7		
9												1261.0		TRUE ELEVATION		
10																
11												-0.1		MISTIG		
12																
13																
14																
15																
16																
17																
18																
19																
20																

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10/10/07

**STADIA SURVEY NOTES**

AREA DISCOVERY CREEK STATE or PROVINCE ALASKA PAGE No. 28  
 LINE No.(s) 87 PARTY No. 1184 DATE 5 Day 5 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				TAKE OFF								1261.0					
2																	
3		0												Δ		π	
4	W	900	✓									6.0	+6.0	1267.0			
5	SW	1760	✓									6.0	-6.0	1261.0	-	261	
6	"	2640	✓									12.3	-12.3	1254.7	-	262	
7	"	2640										14.1	-13.9	1253.1	0	263 1253.2	
8	N	3520		269	55	17						10.0	-13.6		0		
9	"	3520		89	33	57						5.0	-21.7	-21.8	1231.3	Δ	
10	"	3520		270	26	22						5.0	-22.0		Δ <sub>1</sub>		
11	"	2640	✓	89	35	10						4.0	+15.1	1246.4	-	264	
12	"	1760	✓									0.5	-0.5	1230.8	-	265	
13	"	880	✓									3.4	-3.4	1227.9	-	266	
14	S	880										4.0	-5.9	1225.4		267 π	
15	"	1760		90	17	00						4.0	-8.4	1222.9	-	268	
16	"	1760		90	16	11						4.0	-12.3	1219.0	-	269	
17	"	2640		90	15	15						4.0	-15.7	1215.6	-	270	
18	"	3520		90	05	30						10.0	-15.6	-15.4	1215.9	0	271 1215.4
19	"	3520		269	54	55						10.0	-15.2		0		
20																	

TI-598B

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### STADIA SURVEY NOTES

AREA                      RIVER STATE or PROVINCE ALASKA PAGE No. 29  
 LINE                      PARTY No. 1184 DATE 5 Day 5 Mo. 77 Yr. BOOK No.                       
 SURVEY                      UNDER RODMAN D JENSEN WEATHER:                      P.T.S. No.                     

LINE	BEAMAN OR VERNIER		ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF.S. - S.S.	Station	REMARKS
	Bearing of Sight	Distance	Level	Inclined	Angle or Factor	Hair Read			Reading	Correc-tion			
											1215.9		
2												271	
3	N	2640	88	22	08			10.0	-65.1	-65.1	1150.8	Δ	
		2640	271	38	00			10.0	-65.2			Δ	
5		1760	88	18	12			4.0	+48.1		1198.9	-	272
6		880	88	32	44			4.0	+18.3		1169.1	-	273
7		0									1144.9		274
								H1					π
8	S	880	91	02	55			4.0	-20.1		1130.7	-	275
		1210	90	59	53			10.0	-31.1	-31.1	1119.7	0	275-2 1120.4
10		1210	269	00	12			10.0	-31.0			0	
11	N	2310	88	09	55			5.0	-69.0	-69.0	1050.7	Δ	
12		2310	271	50	15			5.0	-69.1			Δ	
13		1760	88	16	30			4.0	+49.0		1099.7	-	276
14		880	88	21	18			4.0	+21.3		1072.0	-	277
15		0									1044.8		278
								H1					π
16	S	880	91	37	50			4.0	-29.0		1021.7	-	279
17		1760	91	35	20			4.0	-52.8		997.9	-	280
18		2090	91	34	10			10.0	-67.2	-67.2	983.5	0	280-2 984.5
19		2090	268	25	55			10.0	-67.2			0	
20													

TI-598B

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*[Signature]*

14.6 1/2  
3.0  
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**STADIA SURVEY NOTES**

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 30  
 LINE No.(s) 87 PARTY No. 1184 DATE 6 Day 5 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												983.5			
2														280-2	
3	N	2310		90 11	42			10.0	17.9	+17.8	1001.3		Δ		
4		2310		269 48	45			10.0	17.6				Δ		
5		1760		91 08	13			4.0		-38.9		962.4	-	281	
6		880		92 57	22			4.0		-49.4		951.9	-	282	
7		0						H1	5.9	-5.9		995.4		283	π
8	S	880		89 41	40			4.0		+0.7		1002.0	-	284	
9	"	1760		89 44	55			4.0		+3.7		1005.0	-	285	
10	"	2640		89 48	00			5.0	4.2	+4.4		1005.7	0	286	1006.9
11	"	2640		270 12	30			5.0	4.6				0		
12	N	2530		90 23	05			10.0	27.0	+27.0	1032.7		Δ		
13	"	2530		269 37	05			10.0	26.9				Δ		
14	"	1650		90 15	20			10.0		-17.4		1015.3	-	287	
15	"	770		90 12	00			4.0		-6.7		1026.0	-	288	
16		0												288-4	π
17	S	110	✓					8.3		-8.3		1024.4	-	289	
18	"	990		91 13	50			10.0		-31.3		1001.4	-	290	
19	"	1860	✓					14.0		-13.9		1018.8	0	291	1020.3
20	"	1860		269 53	15			10.0	-13.7				0		

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### STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 31  
 LINE No.(s) 87 PARTY No. 1184 DATE 6 Day 5 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		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												1018.8				
2														291		
3	N	2640		93 09	13			10.0	155.2	+155.2	1174.0		Δ			
4	"	2640		266 51	00			10.0	155.1				Δ			
5	"	1760		93 41	45			4.0		-117.4	1056.6		-	292		
6	"	880		94 01	30			4.0		-65.8	1108.2		-	293		
7		0					41	5.9		-5.9	1168.1			294		⊥
8	S	880		86 13	40			4.0		+53.9	1227.9		-	295		
9	"	1760		25 41	15			4.0		+128.3	1302.3		-	296		
10	"	2310		85 41	40			14.0	159.4	+159.3	1333.3	0		296-3		1335-0
11	"	2310		274 17	47			14.0	159.1				0,			
12	N	660		91 25	03			10.0	26.3	+26.3	1359.6		Δ			
13	"	660		268 35	10			10.0	26.3				Δ,			
14	"	330		91 38	00			4.0		-13.4	1346.2		-	297-		
15		0												297-2		⊥
16	S	550		90 38	44			10.0	-16.2	-16.2	1343.4	0		298		1345-2
17	"	550		269 20	45			10.0	-16.3				0,			
18	N	1760		88 03	55			10.0	-49.4	-49.4	1294.0		Δ			
19	"	1760		271 56	04			10.0	-49.4				Δ,			
20	"	880		89 11	22			4.0		+8.4	1302.4		-	299		

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STADIA SURVEY NOTES

AREA AWUNA RIVER STATE or PROVINCE ALASKA PAGE No. 32  
 LINE No.(s) 87 PARTY No. 1184 DATE 6 Day 5 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.			
1											1294.0				
2															
3		0											300	+	
4	S	880	93	40	15								301		
5	"	1760	92	43	40								302		
6	"	2640	92	30	30								303	1170.5	
7	"	2640	267	29	24								0		
8	N	2640	89	11	25								4		
9	"	2640	270	48	33								4		
10	"	1760	89	24	00								304		
11	"	880	89	27	50								305		
12		0											306	+	
13	S	880	90	25	45								307		
14	"	1760	90	11	20								308	MARVER PIPE	
15	"	2640	90	11	22								309	1124.7	
16	"	2640	269	48	18								0		
17	N	2640	89	21	20								4		
18	"	2640	270	39	00								4		
19	"	1760	89	19	30								310		
20	"	880	89	53	20								311		

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*[Signature]*



### STADIA SURVEY NOTES

AREA LOOKOUT RIDGE STATE or PROVINCE ALASKA PAGE No. 33  
 LINE No.(s) 87 PARTY No. 1184 DATE 6 Day 5 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		ΔB.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												1097.6				
2																
3		0						HI	5.9	-5.9		1091.7		312	π	
4	S	880		90 20	50				10.0	-15.3		1082.3	-	313		
5		1760		90 25	30				25.0	-38.0		1059.6	-	314		
6		2640	✓						6.0	-6.0		1091.6	-	315		
7		3020	✓						1.8	-1.8		1095.8	0	315+380 BXS 8706		
8		3020		270 03	48				5.0	-1.7			0			1098.4
9												1098.4			TRUE ELEVATION	
10																
11													-2.6		MISTIE	
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. 34  
 LINE No.(s) 87 PARTY No. 1184 DATE 6 Day 5 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		Δ 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	8706					1098.4				1104.2
2																
3		0						H1	5.8	+5.0	1103.4	Δ	BAS 8706		T	
4	S	500	✓						3.4	-3.4	1100.0	-	316		BAS 8706 - SP 315 + 330 AND	
5	"	1380		89 51	15				4.0	-0.5	1102.9	-	317		WILL BE THE INTERSECTION	
6	"	2260		89 46	10				4.0	+5.1	1108.5	-	318		WITH L-85 & 15	
7	"	3140		89 38	30				5.0	+14.7	1118.1	0	319		MARKED BY A 1118.7	
8	"	3140		87 21	38				5.0	14.8		0			MARKER PIPE 1118.4	
9	N	3520		91 33	42				10.0	+105.8	1223.9	Δ				
10	"	3520		86 26	30				10.0	105.7		Δ				
11	"	2640		91 56	10				4.0	-93.2	1130.7	-	320			
12	"	1760		92 13	25				4.0	-72.3	1151.6	-	321			
13	"	880		92 38	55				4.0	-44.7	1179.2	-	322			
14		0						H1	5.9	-5.9	1218.0		323		T	
15	S	880		86 34	40				4.0	+48.5	1272.4	-	324			
16	"	1760		86 07	40				4.0	+114.9	1338.8	-	325			
17	"	2640		85 09	22				4.0	+218.9	1442.8	-	326			
18	"	3520		83 45	45				5.0	+377.4	1601.3	0	327		1601.9	
19	"	3520		87 14	10				5.0	377.4		0			1600.9	
20																

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### STADIA SURVEY NOTES

AREA LOOKOUT RIDGE STATE or PROVINCE ALASKA PAGE No. 35  
 LINE No.(s) 87 PARTY No. 1184 DATE 8 Day 5 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		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												1601.3				
2													1	327		
3	N	880		95 59	40			10.0	101.9	+101.9	1703.2		Δ			
4	"	880		264 00	36			10.0	101.8				Δ <sub>1</sub>			
5		0						H1 5.9		-5.9		1697.3		328	π	
6	S	550		88 35	25			10.0	3.5	+3.5		1706.7	0	328-3	1707.3	1706.2
7	"	550		271 24	44			10.0	3.6				0 <sub>1</sub>			
8	N	2970		87 21	00			14.0	-123.3	-123.4	1583.3		Δ			
9	"	2970		272 39	10			14.0	-123.5				Δ <sub>1</sub>			
10	"	2640		87 20	40			4.0		+118.3		1701.6	-	329		
11	"	1760		87 34	11			4.0		+70.6		1653.9	-	330		
12	"	880		88 44	25			4.0		+15.3		1598.6	-	331		
13		0						H1 5.9		-5.9		1577.4		332	π	
14	S	880		90 25	00			4.0		-10.4		1572.9	-	333		
15	"	1760		90 26	36			14.5	-28.1	-28.1		1555.2	0	334	1556.0	1554.4
16	"	1760		269 33	37			14.5	-28.0				0 <sub>1</sub>			
17	N	2640		88 26	25			14.0	-58.6	-58.7	1496.5		Δ			
18	"	2640		271 34	48			14.0	-58.8				Δ <sub>1</sub>			
19	"	1760		88 26	50			4.0		+43.7		1540.2	-	335		
20	"	880		88 23	47			4.0		+20.9		1517.4	-	336		

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### STADIA SURVEY NOTES

AREA LOOKOUT RIDGE STATE or PROVINCE ALASKA PAGE No. 36  
 LINE No.(s) 87 PARTY No. 1184 DATE 8 Day 5 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												1496.5				
2																
3		0						H1	5.9		-5.9	1490.6		337		
4	S	880		91 35	55				4.0		-28.5	1468.0	-	338		
5	"	1760		91 36	45				4.0		-53.5	1443.0	-	339		
6	"	2640		91 03	44				10.0	-58.9	-58.9	1437.6	0	340	1438.5	1436.4
7	"	2640		268 56	30				10.0	-58.8			0			
8	N	2640		90 42	44				10.0	42.8	+42.8	1480.4				
9	"	2640		269 17	20				10.0	42.8						
10	"	1760		91 07	11				4.0		-38.4	1442.0	-	341		
11	"	880		91 15	55				4.0		-23.4	1437.0	-	342		
12		0						H1	5.9		-5.9	1474.5		343		π
13	S	880		88 38	00				4.0		+17.0	1497.4	-	344		
14	"	1760		87 50	48				5.0	61.1	+61.1	1541.5	0	345	1542.5	1540.0
15	"	1760		272 09	15				5.0	61.2			0			
16	N	3190		90 07	53				10.0	17.3	+17.2	1558.7				
17	"	3190		269 52	20				10.0	17.1						
18	"	2310		90 13	40				4.0		-13.2	1545.5	-	346		
19	"	1430		90 48	40				4.0		-24.2	1534.5	-	347		
20	"	550		90 57	25				4.0		-13.2	1545.5	-	348		

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**STADIA SURVEY NOTES**

AREA LOOKOUT RIDGE STATE or PROVINCE ALASKA PAGE No. 37  
 LINE No.(s) 87 PARTY No. 1184 DATE 8 Day 5 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.		
1											1558.7			
2														
3		0											348-3 T	
4	W	640	✓					12.1	-12.1		1546.6	0	BAS 8707 1547.8	
5	"	640		269 48 45				10.0	-12.1			0		
6											1544.9		TRUE ELEVATION 1544.9	
7														
8											<del>+1.7</del>		MISTIE	
9														
10														
11				TAKE OFF							1544.9			
12														
13	W	640	✓					12.1	+12.1		1557.0		Δ	
14	"	640		269 48 45				10.0	12.1				Δ	
15		0											T	
16	S	330		91 58 00				4.0	-15.3		1541.7	-	349	
17	"	880		92 07 11				14.0	-46.5 -46.5		1510.5	0	349-3 1510.7	
18	"	880		267 53 00				14.0	-46.5			0		
19														
20														

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### STADIA SURVEY NOTES

AREA LOOKOUT RIDGE STATE or PROVINCE: ALASKA PAGE No. 38  
 LINE No.(s) 87 PARTY No. 1184 DATE 8 Day 5 Mo. 77 Yr. BOOK No.       
 SURVEYOR WD HELANDER RODMAN DJENSEN WEATHER:      P.T.S. No.     

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											1510.5				
2													349-3		
3	N	2970		86 04 00				5.0	-198.7	-198.8	1311.7		Δ		
4	"	2970		873 56 20				5.0	-199.0				Δ <sub>1</sub>		
5	"	2640		86 08 00				4.0		+174.0	1485.7	-	350		
6	"	1760		86 57 11				4.0		+89.6	1401.3	-	351		
7	"	880		87 59 55				4.0		+26.7	1338.4	-	352		
8		0						5.9		-5.9	1305.8		353	π	
9	S	880		90 33 30				4.0		-12.6	1299.1	-	354		
10	"	1760		90 14 30				4.0		-11.4	1300.3	-	355		
11	"	2640		89 40 46				5.0	9.8	+9.8	1321.5	0	356	1322.4	
12	"	2640		270 19 25				5.0	9.9				0 <sub>1</sub>		
13	N	2970		91 49 46				10.0	104.8	+104.8	1426.3		Δ		
14	"	2970		268 10 15				10.0	104.8				Δ <sub>1</sub>		
15	"	2090		92 26 22				4.0		-93.0	1333.3	-	357		
16	"	1210		92 56 33				4.0		-66.1	1360.2	-	358		
17	"	330		93 32 10				4.0		-24.4	1401.7	-	359		
18		0											359-2	π	
19	S	550		89 03 44				4.0		+5.0	1431.3	-	360		
20															

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**STADIA SURVEY NOTES**

AREA COLVILLE RIVER STATE or PROVINCE ALASKA PAGE No. 39  
 LINE No.(s) 87 PARTY No. 1184 DATE 8 Day 5 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	Correction	Center Hair			INST.	ROD			
1												1426.3				
2																
3	S	1430		88-16	00			10.0	33.3	+33.3		1459.6	0	361	1461.0	
4	"	1430		271-44	04			10.0	33.3				0.			
5	N	1766	✓					12.3		+12.3		1471.9	Δ			
6	"	1760		269-55	38			10.0	12.2				Δ <sub>1</sub>			
7	"	880		90-21	40			4.0		-9.5		1462.4	-	362		
8		0						HI 5.9		-5.9		1466.0		363	π	
9	S	880		91-26	05			10.0	-32.0	-32.0		1439.9	0	364	1441.7	
10	"	880		268-34	20			10.0	-31.9				0.			
11	N	2090		86-38	25			5.0	-117.5	-117.5		1322.4	Δ			
12	"	2090		273-21	40			5.0	-117.5				Δ <sub>1</sub>			
13	"	1210		87-50	50			4.0		+41.5		1363.9	-	365		
14	"	330		88-49	25			14.0		-7.2		1315.2	-	366		
15		0												366-2	π	
16	S	550		94-52	25			14.0		-60.7		1261.7	-	367		
17	"	1430		95-33	10			4.0		-142.4		1180.0	-	368	MARKER PIPE	
18	"	2310		92-52	10			4.0		-119.6		1202.8	-	369		
19	"	3190		90-36	22			10.0	-43.7	-43.6		1278.8	0	370	1281.2	
20	"	3190		269-23	55			10.0	-43.5				0.			

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2.0  
10.5

**STADIA SURVEY NOTES**

AREA COLVILLE RIVER STATE or PROVINCE ALASKA PAGE No. 40  
 LINE No.(s) 37 PARTY No. 1184 DATE 8 Day 5 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		AB.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												1278.8				
2															370	
3		880	90	12	54			14.0	17.3	+17.3	1296.1		Δ			
4		880	269	47	08			14.0	17.3				Δ			
5		0						H1	5.9	-5.9	1290.2			371	π	
6	S	880	90	35	00			4.0		-13.0	1283.1		-	372		
7		1430	90	34	54			14.0	-28.5	-28.5	1267.6		0	372-3	1270.3	
8		1430	269	25	16			14.0	-28.4				0			
9	N	2090	88	03	53			5.0	-65.6	-65.6	1202.0		Δ			
10		2090	271	56	05			5.0	-65.6				Δ			
11		1760	88	10	30			4.0		+52.1	1254.1		-	373		
12		880	88	42	22			4.0		+15.9	1217.9		-	374		
13		0	<del>271</del>	<del>56</del>	<del>05</del>			H1	5.9	-5.9	1196.1			375	π	
14	S	880	91	00	50			4.0		-19.6	1182.4		-	376		
15		1760	90	58	18			4.0		-33.8	1168.2		-	377		
16		2640	89	21	00			4.0		+25.9	1227.9		-	378		
17		3190	89	11	52			14.0	+30.7	+30.8	1232.8		0	378-3	1236.2	
18		3190	270	48	30			14.0	31.0				0			
19																
20																

TI-598B

81-

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2nd \_\_\_\_\_



### STADIA SURVEY NOTES

AREA COLVILLE RIVER STATE or PROVINCE ALASKA PAGE No. 41  
 LINE No.(s) 87 PARTY No. 1184 DATE 9 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR W.D. HELANDER 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.	ROD			
1													1232.8			
2															378-3	
3	N	2970		83 13	20				10.0	-82.1	-82.2	1150.6		▲		
4	"	2970		271 47	00				10.0	-82.4				▲		
5	"	2640		88 18	05				4.0		+74.3		1224.9	-	379	
6	"	1760		90 18	40				5.0		-14.6		1136.0	-	380	NOT DRILLED
7	"	880		90 14	50				5.0		-8.8		1141.8	-	381	THIS HOLE NOT DRILLED : IN
8		0						HI	5.9		-5.9		1144.7		382	COLVILLE RIVER
9	S	880		89 09	25				4.0		+8.9		1159.5	-	383	
10	"	1760		87 30	20				4.0		+72.6		1223.2	-	384	
11	"	2640		87 31	11				5.0	109.2	+109.2		1259.8	0	385	1263.9
12	"	2640		272 28	53				5.0	109.3				0		
13	N	880		92 09	16				10.0	43.1	+43.1	1302.9		▲		
14	"	880		267 50	57				10.0	43.0				▲		
15		0						HI	5.9		-5.9		1297.0		386	TRUE
16	NW	830		90 36	38				10.0	-18.8	-18.8		1284.1	0	BAS 3708	
17	"	830		269 23	27				10.0	-18.8				0		1288.4
18													1288.4			TRUE ELEVATION
19																
20													+ 4.3			MISTAKE

TI-588B

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2nd \_\_\_\_\_

### STADIA SURVEY NOTES

AREA COLVILLE RIVER STATE or PROVINCE ALASKA PAGE No. 42  
 LINE No.(s) 87 PARTY No. 1184 DATE 9 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR W.D. 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				TAKE OFF			BAS 870					1288.4			
2															
3	NW	830		90 36	38			10.0	+18.8	+18.8	1307.2		Δ		
4	"	830		269 23	27			10.0	+18.8				Δ		
5		0													π
6	S	880		87 44	05			4.0		+30.8		1338.0	-	387	
7	"	1760		87 51	22			4.0		+61.8		1369.0	-	388	
8	"	2640		87 40	44			4.0		+102.9		1410.1	-	389	
9	"	3520		87 25	30			10.0	148.1	+148.1		1455.3	0	396	1455.6
10	"	3520		272 34	33			10.0	148.2				0		
11	N	880		92 11	40			10.0	43.7	+43.7	1499.0		Δ		
12	"	880		267 48	33			10.0	43.6				Δ		
13		0						HI	5.9	-5.9		1493.1		391	π 1517.2
14	S	880		88 31	00			5.0	17.8	+17.8		1516.8	0	392	SP 392 BEGINS TIE
15	"	880		271 29	16			5.0	17.8				0		EXPERIMENTAL
16	N	2640		92 53	50			10.0	143.4	+143.4	1660.2		Δ		SECTION - 12 SP3/MILE
17	"	2640		267 06	20			10.0	143.3				Δ		
18	"	2200		93 12	30			4.0		-127.1		1593.1	-	392-1	
19	"	1760		93 20	35			4.0		-106.6		1553.6	-	393	
20	"	1320		<del>93 31</del>	<del>37</del>			4.0		-90.0		1570.2	-	393-1	

TI-588B

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2nd \_\_\_\_\_

**STADIA SURVEY NOTES**

AREA COLVILLE RIVER STATE or PROVINCE ALASKA PAGE No. 43  
 LINE No.(s) 87 PARTY No. 1184 DATE 9 Day 5 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												1660.2				
2																
3	N	880		<del>93 44 05</del>		93	59	35		4.0	-65.3	1594.9	-	394		
4	"	440		93.53	40					4.0	-33.9	1626.3	-	394-1		
5		0						H1		5.9	-5.9	1654.3	-	395		π
6	S	440		89 21	16					5.0	+0.0	1660.2	0	395-1		1660.8
7	"	440		270 39	13					5.0	0.0		0,			
8	N	2640		90 45	20					10.0	44.8	1705.0	Δ			
9	"	2640		269 14	44					10.0	44.8		Δ,			
10	"	2200		91 28	00					4.0	-60.3	1644.7	-	396		
11	"	1760		92 30	40					4.0	-81.1	1623.9	-	396-1		
12	"	1320		93 48	10					4.0	-91.5	1613.5	-	397		
13	"	880		94 29	18					4.0	-72.9	1632.1	-	397-1		
14	"	440		94 23	22					4.0	-37.7	1667.3	-	398		
15		0						H1		5.9	-5.9	1699.1	-	398-1		π
16	S	440		87 12	40					4.0	+17.4	1722.4	-	399		
17	"	880		87 23	05					4.0	+36.2	1741.2	-	399-1		
18	"	1100		87 23	05					10.0	40.2	1745.2	0	399+660'		1746.0
19	"	1100		272 36	30					10.0	40.1		0,			
20																

TI-588B

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CHECKED BY 1st \_\_\_\_\_

2nd \_\_\_\_\_

### STADIA SURVEY NOTES

AREA COLVILLE RIVER STATE or PROVINCE ALASKA PAGE No. 44  
 LINE No.(s) 87 PARTY No. 1184 DATE 9 Day 5 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													1745.2		
2														399+660	
3	N	2750	✓					12.9		+12.8	1758.0	Δ			
4	"	2750		269 56	45			10.0	12.6			Δ			
5	"	2530		90 11	47			4.0		-12.7		1745.3	✓	400	
6	"	2090		90 20	10			4.0		-16.3		1741.7	✓	400-1	
7	"	1650		90 30	14			4.0		-18.5		1739.5	✓	401	
8	"	1210		90 22	44			10.0		-18.0		1740.0	✓	401-1	
9	"	770		90 19	11			14.0		-18.3		1739.7	1-	402	
10	"	330	✓					3.8		-3.8		1754.2	✓	402-1	
11		0												402+770	X
12	S	110		91 42	33			4.0		-7.3		1750.4	✓	403	
13	"	550		91 53	00			4.0		-22.1		1735.9	✓	403-1	
14	"	990		91 51	27			14.0	-46.1	-46.1		1711.9	✓	404	1712.9
15	"	990		262 08	30			14.0	-46.1				0,	404	
16	N	1760		85 53	08			5.0	-121.3	-121.4	1590.5	Δ			
17	"	1760		274 07	33			5.0	-121.6			Δ			
18	"	1320		85 51	11			4.0		+91.5		<del>1499.0</del>	-	404-1	1682.0
19															
20															

TI-568B

WORKED BY \_\_\_\_\_ CHECKED BY 1st \_\_\_\_\_ 2nd \_\_\_\_\_

38  
50  
03

### STADIA SURVEY NOTES

AREA ETIGONIK MOUNTAIN STATE or PROVINCE ALASKA PAGE No. 45  
 LINE No.(s) 87 PARTY No. 1184 DATE 9 Day 5 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												1590.5			
2															
3	N	1140		85 45	53			10.0		+74.2		1664.7	-	355	L-86
4	"	880		85 47	18			4.0		+60.6		1651.1	-	405	INTERSECTION:
5	"	440		85 52	15			4.0		+27.7		1618.2	-	405-1	L-87 SP404+634
6		0						H1 5.9		-5.9		1584.6	-	406 T	L-86 SP355+17
7	S	440		93 43	40			4.0		-32.6		1557.9	-	406-1	MARKER PIPE AT INT
8	"	880		93 23	00			4.0		-55.9		1534.6	-	407	
9	"	1320		92 59	05			4.0		-72.7		1517.8	-	407-1	
10	"	1760		92 49	30			4.0		-90.7		1499.8	-	408	
11	"	2200		92 51	25			4.0		-113.7		1476.8	-	408-1	
12	"	2640		92 43	00			10.0	-135.1	-135.1		1455.4	0	409	1456.7
13	"	2640		87 17	11			10.0	-135.0				0		
14	N	1760		87 20	00			5.0	-76.9	-76.9	1378.5		A		
15	"	1760		87 39	46			5.0	-76.8				A		
16	"	1320		87 20	44			4.0		+57.1		1435.6	-	409-1	
17	"	880		87 29	05			4.0		+34.6		1413.1	-	410	END OF EXPERIMENTAL
18		0						H1 5.9		-5.9		1372.6	-	411	T LAYOUT
19															
20															

TI-588B

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14.7112  
2.29

### STADIA SURVEY NOTES

AREA ETIGONIK MOUNTAIN STATE or PROVINCE ALASKA PAGE No. 46  
 LINE No.(s) 87 PARTY No. 1184 DATE 9 Day 5 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												1378.5			
2															
3	S	880		91 15 05				4.0		-23.2		1555.3	-	412	
4	"	1760		88 52 47				4.0		+30.4		1408.9	-	413	
5	"	2640		88 47 27				14.0	41.7	+41.7		1420.2	0	414	1421.8
6	"	2640		271 12 40				14.0	41.8				0,		
7	N	1430		91 19 50				14.0	47.2	+47.2	1467.4		Δ		
8	"	1430		268 40 20				14.0	47.1				Δ,		
9	"	550		91 16 20				4.0		-16.2		1451.2	-	415	
10		0												415+550	π
11	S	380	✓					3.1		-3.1		1464.3	-	416	
12	"	1210		88 54 00				4.0		+19.2		1486.6	-	417	
13	"	2090		88 34 14				5.0	47.1	+47.1		1514.5	0	418	1516.3
14	"	2090		271 25 54				5.0	47.2				0,		
15	N	880		88 59 35				10.0	-5.5	-5.5	1509.0		Δ		
16	"	880		271 00 40				10.0	-5.5				Δ,		
17		0						5.9		-5.9		1514.9		419	π
18	S	880		91 46 13				4.0		-31.2		1540.2	-	420	1477.8
19	"	1760		91 52 45				4.0		-61.7		1570.7	-	421	1447.3
20															

TI-588B

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150  
400  
105

415+550

### STADIA SURVEY NOTES

AREA ANUK CREEK STATE or PROVINCE ALASKA PAGE No. 47  
 LINE No.(s) 87 PARTY No. 1184 DATE 10 Day 5 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												1509.0			
2															
3	S	2640		91 45	56			10.0	-91.3	-91.3		1417.7	0	422	1419.7
4	"	2640		268 14	05			10.0	-91.3				0,		
5	N	1760		89 56	07			14.0	12.0	+12.0	1429.7		A		
6	"	1760		270 03	40			14.0	12.1				A,		
7	"	880		89 42	44			10.0		-5.6		1424.1	-	423	
8		0					H1	5.9		-5.9		1423.8		424	X
9	S	880		93 56	11			14.0	-74.4	-74.4		1355.3	0	425	1357.5
10	"	880		266 03	50			14.0	-74.4				0,		
11	N	1870		91 23	37			10.0	55.5	+55.5	1410.8		A		
12	"	1870		268 36	17			10.0	55.5				A,		
13	"	990		94 46	30			4.0		-86.4		1324.4	-	426	
14	"	110		96 38	05			4.0		-16.7		1394.1	-	427	
15		0												427-	X
16	N	3060		88 59	18			5.0	49.0	+49.0		1459.8	0	BAS 8710	
17	"	3060		271 00	38			5.0	49.0				0,		
18												1462.3		TRUE ELEVATION	1462.3
19															
20												-2.5		M13474	

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### STADIA SURVEY NOTES

AREA ANUK CREEK STATE or PROVINCE ALASKA PAGE No. 48  
 LINE No.(s) 87 PARTY No. 1184 DATE 10 Day 5 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				TAKE OFF			BAS	8710				1462.3			
2															
3	N	3060		88 59	18			5.0	-49.0	-49.0	1413.3		Δ		
4	"	3060		271 00	38			5.0	-49.0				Δ		
5		0												427-1	π
6	S	770		86 32	10			10.0	36.5	+36.5	1449.8	0	428	1449.4	
7	"	770		273 27	50			10.0	36.5				0		
8	N	880		89 39	40			10.0	4.8	+4.8	1454.6		Δ		
9	"	880		270 20	40			10.0	4.7				Δ		
10		0						H1	5.9	-5.9	1448.7		429	π	
11	S	880		91 40	00			4.0		-29.6	1425.0	-	430		
12	"	1760		91 26	15			4.0		-48.2	1406.4	-	431		
13		2640		91 16	22			10.0	-68.6	-68.6	1386.0	0	432	1385.3	
14	"	2640		268 43	38			10.0	-68.6				0		
15	N	2640		90 27	48			10.0	31.3	+31.3	1417.3		Δ		
16	"	2640		269 32	05			10.0	31.4				Δ		
17	"	1760		90 51	45			10.0		-36.5	1380.8	-	433		
18	"	880		90 49	27			4.0		-16.7	1400.6	-	434		
19		0						H1	5.9	-5.9	1411.4		435	π	
20	S	880		89 22	35			4.0		+5.6	1422.9	-	436		

TI-588B

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### STADIA SURVEY NOTES

AREA ANUK CREEK STATE or PROVINCE ALASKA PAGE No. 49  
 LINE No.(s) 87 PARTY No. 1184 DATE 10 Day 5 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												1417.3			
2															
3	S	1760		89 17	14			4.0		+17.9		1435.2	-	437	
4	"	2640		88 52	45			4.0		+47.6		1464.9	-	438	
5	"	3520		88 54	35			10.0	57.0	+57.1		1474.4	0	439	1473.1
6	"	3520		271 05	88			10.0	57.2				0		
7	N	2640		90 07	25			10.0	15.7	+15.6	1490.0		4		
8	"	2640		269 52	55			10.0	15.4				4		
9	"	1760		90 25	11			4.0		-16.9		1473.1	-	440	
10	"	880		90 20	20			4.0		-9.2		1480.8	-	441	
11		0						HI 5.9		-5.9		1484.1	-	442	X
12	S	880		90 13	00			4.0		-7.3		1482.7	-	443	
13	"	1760		89 40	10			4.0		+6.2		1496.2	-	444	
14	"	2640		89 23	20			5.0	23.2	+23.2		1513.2	0	445	1511.4
15	"	2640		270 36	55			5.0	23.3				0		
16	N	550		88 19	14			14.0	-2.1	-2.1	1511.1		4		
17	"	550		271 40	40			14.0	-2.1				4		
18		0												445-3	X
19	S	330		95 56	25			4.0		-38.2		1472.9	-	446	
20	"	1210		94 02	00			4.0		-89.1		1422.0	-	447	

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### STADIA SURVEY NOTES

AREA ANUK CREEK STATE or PROVINCE ALASKA PAGE No. 50  
 LINE No.(s) 87 PARTY No. 1184 DATE 10 Day 5 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		A.B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												1511.1				
2																
3	S	1760		93 19 05				10.0	-111.9	-111.9		1399.2	0	447-3	1397.1	
4	"	1760		266 41 00				10.0	-111.8				0			
5	N	2090		88 34 30				5.0	-47.0	-47.1	1352.1		Δ			
6	"	2090		271 26 00				5.0	-47.3				Δ			
7	"	1760		89 28 45				4.0		+12.0		1364.1	-	448		
8	"	880	✓					8.4		-8.4		1343.7	-	449		
9		0						41	5.9	-5.9		1346.2		450	π	
10	S	880		86 51 10				4.0		+44.3		1396.4	-	451		
11	"	1760		86 24 35				10.0	100.2	+100.3		1452.4	0	452	1450.0	
12	"	1760		273 36 00				10.0	100.3				0			
13	N	1760		92 01 33				10.0	72.2	+72.2	1524.6		Δ			
14	"	1760		267 58 33				10.0	72.2				Δ			
15	"	880		92 11 15				4.0		-37.6		1487.0	-	453		
16		0						41	5.9	-5.9		1518.7		454	π	
17	NE	1830	✓					14.1		-14.0		1510.6	0	BAS	2711	
18	"	1830		269 52 40				10.0	-13.9				0			1507.8
19												1507.8			TRUE ELEVATION	
20												+2.8		MIST		

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11.15  
2.00  
9.15

### STADIA SURVEY NOTES

ANDY CREEK STATE or PROVINCE ALASKA PAGE No. 51  
87 PARTY No. 1184 DATE 10 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR W D 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				TAKE OFF			385	871				1507.8			
2															
3	NE	1830	✓							+14.0	1521.8		Δ		
4	"	1830		269.52	40				13.9				Δ		
5		0								-5.8	1516.0		454	π	
6	S	330		88.38	50					+16.8	1538.6		455		
7	"	1750		88.42	35					+25.6	1547.4		456		
8	"	1870		88.47	35				+25.4	+25.5	1547.3		456-1	1547.5	
9	"	1870		271.12	40								0		
10	N	1650		88-02	-53					-46.2	-46.2	1501.1		Δ	
11	"	1650		271-57	-12									Δ	
12	"	880		88-07	+55					+24.7	1525.8		457		
13		~0~								-5.8	1495.3		458	π	
14	S	770		89-42	+08					-10.0	-10.0	1491.1		458-4	1491.4
15	"	770		270-18	+01									0	
16	N	2809		88-14	-22					-87.3	-87.4	1409.7		Δ	
17	"	2809		271-46	+00									Δ	
18	"	2780		88-15	-15					+80.7	1490.4		459		
19	"	1900		88-45	-45					+37.0	1446.7		460		
20	"	1020		88-51	-44					+16.3	1426.0		461		

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**STADIA SURVEY NOTES**

AREA Swayback Mountain STATE or PROVINCE Alaska PAGE No. 52  
 LINE No.(s) 87 PARTY No. 1184 DATE 11 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Tansen RODMAN W. Helander WEATHER: O.K. 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												1409.7			
2	N	59		90-25	41					-4.4		1405.3	-	462	
3		-0-								-5.9		1403.8	π	462+59'	Intersection Lns.
4	E	402		90-37	30					-14.4		1395.3	-	259+462'	107#87
5	S	721		90-21	09					-8.4		1401.3	-	463	Ln 97 - Sp 462+59'
6	"	1701		90-10	15					-9.1		1400.6	-	464	Ln 107 - Sp 259+402
7	"	2581		89-48	16					-1.2	-1.2	1408.5	0	465	Marker Pipe at Int.
8	"	2581		270-11	55					-1.1			0		1409.1
9	N	1760		89-54	31					11.2	+11.1	1419.6	Δ		
10	"	1760		270-05	50					11.0			A <sub>1</sub>		
11	"	880		89-52	07					-3.0		1416.6	-	466	
12		-0-								-6.2		1413.4	-	467	π
13	S	880		90-44	16					-15.3		1404.3	-	468	
14	"	1760		90-48	20					-28.8		1390.8	-	469	
15	"	2640		90-39	57					-35.7	-35.7	1383.9	0	470	1384.7
16	"	2640		269-20	00					-35.7			0		
17	N	2640		90-04	29					13.4	+13.5	1397.4	A		
18	"	2640		269-55	29					13.5			A <sub>1</sub>		
19	"	1760		90-16	32					-12.5		1384.9	-	471	
20	"	880		90-28	25					-11.3		1386.1	-	472	

TI-586B

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### STADIA SURVEY NOTES

AREA Swayback Mountain STATE or PROVINCE Alaska PAGE No. 53  
 LINE No.(s) 87 PARTY No. 1184 DATE 11 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

13.7  
5.0  
8.7

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												1397.4				
2		~0~									-5.8			473	T	
3	E	870		90-27-10							-11.9		1391.6			
4	"	870		269-32-55							-11.9		1385.5	0	BAS	8712
5														0		1386.5
6													1386.5		TRUE	ELEVATION
7													-1.0		MISTIE	
8																
9															TAKE OFF	BAS 8712
10																1386.5
11	E	870		90-27-10							11.9	+11.9	1398.4	A		
12	"	870		269-32-55							11.9			A <sub>1</sub>		
13		~0~										-5.8			473	T
14	S	880		89-44-10								0.1			474	1398.4
15	"	1760		89-33-55								+9.4			475	
16	"	2640		89-12-39								+22.3			476	1421.6
17	"	2640		270-47-04												
18	N	2640		91-20-30								+66.8				
19	"	2640		268-39-37												
20	"	1760		91-28-39								-49.4			477	

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### STADIA SURVEY NOTES

AREA Swayback Mountain STATE or PROVINCE Alaska PAGE No. 54  
 LINE No.(s) 87 PARTY No. 1124 DATE 11 Day 5 Mo. 11 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: OK 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												1487.5				
2	N	880		91-40-13				4.0		-29.6		1457.9	-	478		
3		-0-						5.8		-5.8		1481.7		479	π	
4	S	880		87-48-40				4.0		+29.6		1517.1	-	480		
5	"	1760		87-13-00				4.0		+81.5		1569.0	-	481		
6	"	2640		86-33-30				10.0	148.5	+148.5		1636.0	0	482	1638.2	
7	"	2640		273-26-24				10.0	148.4				0,			
8	N	1430		94-24-50				10.0	120.1	+120.1	1756.1		Δ			
9	"	1430		265-35-08				10.0	120.1				Δ,			
10	"	550		95-12-30				4.0		-33.9		1702.2	-	483		
11		-0~						5.8		-5.8		1750.3		483+550	π	
12	S	220		91-24-05				6.0	-11.4	-11.4		1744.7	0,	483+770		
13	"	220		268-36-05				6.0	-11.4				0,		1747.3	
14	N	1870		81-17-43				6.0	-277.0	-277.1	1467.6		Δ			
15	"	1870		278-42-35				6.0	-277.2				Δ,			
16	"	1760		81-34-37.				4.0		+253.8		1721.4	-	484		
17	"	880		90-32-35				4.0		-12.3		1455.3	-	485		
18		-0~						5.8		-5.8		1461.8		486	π	
19	S	880		85-29-21				4.0		+65.2		1532.8	-	487		
20	"															

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### STADIA SURVEY NOTES

AREA Swayback Mountain STATE or PROVINCE Alaska PAGE No. 55  
 LINE No.(s) 87 PARTY No. 11.84 DATE 11 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN w/ Holander WEATHER: OK P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Δ B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												1467.7				
2	S	1210		84-14-27				5.0	116.4	+116.5		1584.1	0	487-2	1587.4	
3	"	1210		275-46-65				5.0	116.6				0			
4	N	2310		88-31-00				10.0	-49.8	-49.8		1534.3	Δ			
5	"	2310		271-29-02				10.0	-49.8				Δ			
6	"	1760		89-05-53				4.0		+23.7		1558.0	-	488		
7	"	880		89-09-23				23.0		-10.0		1524.3	-	489		
8		-0-						5.8		-5.8		1528.5	-	490		K
9	S	880		90-46-57				4.0		-14.5		1519.8	-	491		
10	"	1760		90-37-38				14.0		-33.3		1501.0	-	492		
11	W	1680		86-48-27				10.0	83.6	+83.6		1617.9	0	BAS ST 13		
12	"	1680		273-11-36				10.0	83.6				0		1622.2	
13												<u>1622.2</u>			TRUE ELEVATION	
14												-4.3			MISTIE	
15																
16																
17																
18																
19																
20																

11.4  
3.0  
8.4

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### STADIA SURVEY NOTES

AREA Swayback Mountain STATE or PROVINCE Alaska PAGE No. 56  
 LINE No.(s) 87 PARTY No. 1184 DATE 11 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: OK 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														
3	W	1680		86-48-27					8766		1622.2			
4	"	1680		273-11-36					-83.6	-83.6	1538.6			
5		-0-								-5.8	1532.8	490	π	
6	S	2640		90-15-35					-22.0	-21.9	1516.7	0	1616.8	
7	"	2640		269-44-38					-21.8			0	493	
8	N	2640		92-03-00					104.4	+104.4	1621.1	Δ		
9	"	2640		267-57-03					104.4			Δ		
10	"	1760		91-47-43						-78.1	1543.0	-	494	
11	"	880		92-09-57						-37.3	1583.8	-	495	
12		-0-								-5.8	1615.3		496 π	
13	S	880		88-48-48						+14.2	1635.3	-	497	
14	"	1760		<del>98-21-00</del> 88-22-37					45.9	+45.9	1667.0	0	498 1667.1	
15	"	1760		271-37-30					45.9			0		
16	N	2640		90-49-24					47.9	+47.8	1714.8	Δ		
17	"	2640		269-10-58					47.7			Δ		
18	"	1760		91-03-55						-36.7	1678.1	-	499	
19		880		91-06-14						-21.0	1693.8	-	500	
20		-0-								-5.8	1709.0		501 π	

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### STADIA SURVEY NOTES

AREA Swaybacks Mountain STATE or PROVINCE Alaska PAGE No. 57  
 LINE No.(s) 87 PARTY No. 1184 DATE 12 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: O.K. 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												1714.8				
2																
3	S	880		89-04-54				4.0		+10.1		1724.9	-	502		
4	"	1760		88-58-15				14.0		+17.6		1732.4	-	503		
5	"	2640		88-58-06				10.0	37.5	+37.6		1752.4	0	504	1752.6	
6	"	2640		271-02-11				10.0	37.8				0			
7	-N	2750		91-31-01				10.0	82.8	+82.9	1835.3		Δ			
8	"	2750		768-28-52				10.0	82.9				Δ			
9	"	1870		91-30-42				10.0		-59.3		1776.0	-	505		
10	"	990		91-33-20				4.0		-30.9		1804.4	-	506		
11	"	110		91-17-25				4.0		-6.5		1828.8	-	507		
12		~0~						5.8		-5.8		1829.5		507 + 110 K		
13	S	770	✓					14.2	-14.2	-14.3		1821.0	0	508	1821.3	
14	"	770		269-58-49				14.0	-14.3				0			
15	N	2175		89-47-26				10.0	2.0	+2.0	1823.0		Δ			
16	"	2175		210-12-39				10.0	2.0				Δ			
17	"	1295		91-15-31				4.0		-32.4		1790.6	-	509		
18	"	415		93-54-04				4.0		-32.2		1790.8	-	510		
19		~0~						5.8		-5.8		1811.2		510 + 415' K		
20																

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6.15 x  
2.2

**STADIA SURVEY NOTES**

AREA Swayback Mountain STATE or PROVINCE Alaska PAGE No. 58  
 LINE No.(s) 87 PARTY No. 1184 DATE 12 Day 5 Mo. 71 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN J. McKay WEATHER: O.K. P.T.S. No. \_\_\_\_\_

7.6  
3.0 f

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												1823.0				
2																
3	S	465		95-23-31				5.0		-48.7		1774.3	-	511		
4	"	1345		95-04-31				19.0		-138.0		1685.0	-	512		
5	"	2225		94-41-09				10.0		-191.8		1631.2	-	513		
6	"	3105		92-17-24				10.0		-134.1	-134.1	1688.9	0	514	1689.2	
7	"	3105		267-42-33				10.0		-134.1			0			
8	N	1760		92-23-05				10.0		83.2	+83.3	1772.2				
9	"	1760		267-36-42				10.0		83.3						
10	"	880		92-33-29				13.0		-52.3		1770.7	-	515	1719.9	
11		-0-						5.8		-5.8		1766.4		516	T	
12	S	880		90-56-05				19.0		-33.4		1738.8	-	517		
13	"	1760		89-25-22				4.0		+13.7		1785.9	-	518		
14	"	2640		89-21-28				5.0	24.6	+24.7		1796.9	0	519	1797.3	
15	"	2640		270-38-46				5.0	24.8				0			
16	N	2640		90-26-40				10.0	30.5	+30.4	1827.3					
17	"	2640		269-33-42				10.0	30.2							
18	"	1760		90-25-34				4.0		-17.1		1810.2	-	520		
19	"	880		90-22-30				4.0		-9.8		1817.5	-	521		
20		-0-						5.8		-5.8		1821.5		522	T Marker Pipe	

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**STADIA SURVEY NOTES**

AREA Swayback Mountain STATE or PROVINCE Alaska PAGE No. 59  
 LINE No.(s) 87 PARTY No. 1184 DATE 13 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Funky-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.	ROD		
1												1827.3			
2	S	880		89-05-50				10.0	3.9	+4.0		1831.3	0	523	1831.8
3	"	880		270-54-48				10.0	4.0				0		
4	N	1430		89-11-11				14.5	-5.8	-5.9	1825.4		Δ		
5	"	1430		270-49-11				14.5	-6.0				Δ		
6	"	550		89-09-41				4.0		+4.0		1829.4	-	524	
7		-0-						5.8		-5.8		1819.6		524 + 550'	π
8	S	330		93-02-55				10.0		-27.6		1797.8	-	525	
9	"	1210		93-20-50				10.0	-80.6	-80.6		1744.8	0	526	1745.3
10	"	1210		266-39-43				10.0	-80.5				0		
11	N	3410		91-50-33				10.0	119.6	+119.3	1864.1		Δ		
12	"	5410		268-09-59				10.0	119.1				Δ		
13	"	2530		91-58-10				19.0		-05.0		1754.7	-	527	1758.3
14	"	1650		92-07-17				14.0		-35.1		1789.0	-	528	
15	"	770		92-03-58				5.0		-32.8		1831.3	-	529	
16		-0-						5.8		-5.8		1858.3		529 + 770'	π
17	S	110		89-24-13				4.0		-2.9		1861.2	-	530	
18	"	990		89-17-05				4.0		+8.4		1872.5	-	531	
19	"	1870		88-53-26				4.0		+32.2		1896.3	-	532	
20															

TI-588B

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### STADIA SURVEY NOTES

AREA Swayback Mountain STATE or PROVINCE Alaska PAGE No. 60  
 LINE No.(s) 87 PARTY No. 1184 DATE 13 Day 5 Mo. 17 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Foggy P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												1864.1			
2															
3	S	2750		88-49-10				10.0	46.7	46.8		1910.9	0	533	1911.5
4	"	2750		271-11-06				10.0	46.9				0 <sub>1</sub>		
5	N	3520		91-03-08				10.0	74.6	+74.5	1985.4		Δ		v
6	"	3520		268-57-13				10.0	74.3				Δ <sub>1</sub>		
7	"	2640		91-26-45				14.0		-80.6		1904.8	-	534	
8	"	1760		91-10-35				10.0		-46.1		1939.3	-	535	
9	"	880		91-03-09				10.0		-26.2		1959.2	-	536	
10		~0~						5.8		-5.8		1979.6		537	X
11	S	880		91-23-52				4.0		-25.5		1959.9	-	538	
12	"	1760		90-38-32				4.0	-33.7	-33.7		1951.7	0	539	1952.4
13	"	1760		269-21-29				14.0	-33.7				0 <sub>1</sub>		
14	N	2310		87-56-06				10.0	-73.2	-73.3	1878.4		Δ		
15	"	2310		272-03-56				10.0	-73.3				Δ <sub>1</sub>		
16	"	1430		88-03-32				4.0		-44.4		1922.8	-	540	
17	"	550		88-38-07				4.0		49.1		1887.5	-	541	
18		-0-						6.0		-0.0		1872.4		541-3	π 541 + 550'
19	S	330		94-45-07				19.0		-48.3		1830.1	-	542	1832.4
20															

TI-586B

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### STADIA SURVEY NOTES

AREA Swayback Mountain STATE or PROVINCE Alaska PAGE No. 61  
 LINE No.(s) 87 PARTY No. 1184 DATE 13 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Foggy P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. ⊙F.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair.			INST.	ROD			
1												1878.4				
2																
3	S	1210		92-44-19				4.0		-61.8		1816.6	-	543		
4	"	2090		92-34-02				25.0		+118.6		1759.8	-	544		
5	"	2420		92-14-54				5.0	-99.9	-99.9		1778.5	0	544-2	544 + 336	
6	"	2420		267-45-09				5.0	-99.9				0		1779.3	
7	N	3190		90-27-49				10.0	35.8	+35.6	1814.0		Δ			
8	"	3190		269-32-29				10.0	35.5				Δ			
9	"	2640		91-43-00				4.0		-83.1		1730.9	-	545		
10	"	1760		91-57-10				24.0		-84.0		1730.0	-	546	Drill Mast	
11	"	880		91-36-56				10.0		-34.8		1779.2	-	547		
12		-0-						5.8		-5.8	1808	21708.2		548	π	
13	S	880		89-23-30				4.0		+5.3		1819.3	-	549		
14	"	1210		89-22-24				10.0	3.2	+3.2		1817.2	0	549-2	1818.0	
15	"	1210		276-37-32				10.0	3.2				0			
16	N	2310		85-27-17				5.0	-178.1	-178.2	1639.4		Δ			
17	"	2310		274-32-54				5.0	-178.2				Δ			
18	"	1760		85-32-54				4.0		+132.6		1772.0	-	550		
19	"	880		88-48-56				4.0		+14.2		1653.6	-	551		
20		~0~						5.8		-5.8		1633.6		552	π	

TI-588B

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### STADIA SURVEY NOTES

AREA Kuna River STATE or PROVINCE \_\_\_\_\_ PAGE No. 62  
 LINE No.(s) 87 PARTY No. 1184 DATE 13 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN W. Helander WEATHER: Foggy 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												1639.4				
2	S	880		88-18-08				4.0		+22.1		1661.5	-	553		
3	"	1760		88-22-45				4.0		+45.8		1685.2	-	554		
4	"	2640		88-12-01				4.0		+78.9		1718.3	-	555		
5	"	3520		88-09-12				5.0	108.4	+108.7		1748.1	0	556	1749.0	
6	"	3520		271-51-14				5.0	108.9				0,			
7	N	1760		90-52-46				5.0	32.0	+31.9	1780.0		Δ			
8	"	1760		269-07-49				5.0	31.7				Δ,			
9	"	880		90-51-15				4.0		-17.1		1762.9	-	557		
10		~0-						5.8		-5.8		1774.2		558	π	
11	S	880		89-44-12				4.0						<del>559</del>		
12	S	880		270-13-33				5.0	-1.5	-1.5		1778.5	0	559	1779.4	
13	"	880		89-46-27				5.0	-1.5				0,			
14	E	1920		9445-45				10.0	69.1	+68.8	1847.3		Δ			
15	"	1920		268-18-13				10.0	68.5				Δ,			
16		~0-						5.8		-5.8		1841.5			π	
17	W	1440		90-54-22				5.0	-27.8	-27.8		1819.5	0			
18	"	1440		269-06-22				5.0	-27.5				0,			RAS 1820.5
19												1820.5		TRUE		ELEVATION
20												-1.0				MISTIE

12.6  
 3.0  
 9.6  
 12.7  
 5.0  
 7.7

TI-588B

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CHECKED BY 1st \_\_\_\_\_

2nd \_\_\_\_\_

**STADIA SURVEY NOTES**

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 63  
 LINE No.(s) 87 PARTY No. 1184 DATE 14 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN D. Calahan WEATHER: OK 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							TAKE OFF		BAS	8715			1826.5			
2																
3																
4	W	1440		90-54-22					5.0	+27.8	+27.8	1848.3		Δ		
5	"	1440		269-06-22					5.0	+27.5				Δ <sub>1</sub>		
6		0							5.8		+5.8					K
7	E	1920		91-45-45					10.0	+69.1	-68.8		1779.5	0	559	1779.5
8	"	1920		268-15-13					10.0	-68.5				0 <sub>1</sub>		
9	N	770		87-43-19					14.0	-16.6	-16.7	1762.8		Δ		
10	"	770		272-17-22					14.0	-16.8				Δ <sub>1</sub>		
11		-0-							5.8		-5.8		1757.0			559+770 K
12	S	110		94-02-50					4.0		-11.8		1751.0	-	560	
13	"	990		92-12-36					4.0		-42.2		1720.6	-	561	
14	"	1870		91-40-00					5.0	-59.4	-59.4		1703.4	0	562	1703.3
15	"	1870		268-20-15					5.0	-59.3				0 <sub>1</sub>		
16	N	2640		91-17-46					10.0	69.7	+69.6	1773.0		Δ		
17	"	2640		268-42-30					10.0	69.5				Δ <sub>1</sub>		
18	"	1760		91-15-06					13.0		-51.4		1721.6	-	563	
19	"	880		91-11-55					4.0		-22.4		1750.6	-	564	
20		~0~							5.8		-5.8		1767.2		565	K

TI-588B

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**STADIA SURVEY NOTES**

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 64  
 LINE No.(s) 87 PARTY No. 1184 DATE 14 Day 5 Mo. 11 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN D. Calahan WEATHER: OK 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											1743.0				
2															
3	S	880		89-52-47				10.0	-8.2	-8.1		1764.9	0	566 1764.8	
4	"	880		270-07-48				10.0	-8.0				0		
5	N	2640		89-09-25				5.0	-33.9	-33.9	1731.0		Δ		
6	"	2640		270-50-43				5.0	-33.9				Δ		
7	"	1760		90-36-27				4.0		-22.7		1708.3	-	567	
8	"	880		91-06-03				4.0		-20.9		1710.1	-	568	
9		-0-						5.8		-5.8		1725.2		569 X	
10	S	880		89-29-55				4.0		+3.7		1734.7	-	570	
11	"	1760		<del>89-25-05</del>		89-30-07		4.0		+11.3		1742.3	-	571	
12	"	2640		89-20-14				10.0	20.5	+20.7		1751.7	0	572 1751.6	
13	"	2640		270-40-12				10.0	20.9				0		
14	N	1760		90-55-14				10.0	38.3	+38.2	1789.9		Δ		
15	"	1760		269-05-24				10.0	38.0				Δ		
16		880		90-50-37				4.0		-17.0		1772.9	-	573	
17		-0-						6.0		-6.0		1783.9	-	574 X	
18	S	880		90-31-05				4.0		-12.0		1777.9	-	575	
19	"	1760		90-28-16				10.0		-24.5		1765.4	-	576	
20															

TI-588B

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**STADIA SURVEY NOTES**

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 65  
 LINE No.(s) 87 PARTY No. 1184 DATE 14 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN D. Calahan 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												1789.9				
2	S	2310		90-33-26				14.0	-36.5	-36.2		1783.7	0	576+	550'	
3	"	2310		269-27-17				14.0	-36.0				0		1763.4	
4	N	2970		89-40-39				10.0	-6.7	-7.0		1786.7				
5	"	2970		270-20-02				10.0	-7.3							
6	"	2640		89-42-08				10.0		+3.7		1750.4	-	577		
7	"	1760		90-07-44				4.0		-8.0		1738.7	-	578		
8	"	880		91-24-59				5.0		-26.8		1719.9	-	579		
9		-0-						5.9		-5.9		1740.8	-	580	π	
10	S	880		86-58-02				4.0		+42.6		1789.3	-	581		
11	"	1210		<del>87-07-57</del>			87-06-42	14.0	46.9	+46.9		1793.6	0	581+	330'	
12	"	1210		272-53-11				14.0	46.9				0		1793.3	
13	N	1430		89-50-41				10.0	6.1	+6.1		1799.7				
14	"	1430		270-09-41				10.0	6.0							
15	"	880		89-56-41				4.0		-3.2		1796.5	-	582		
16		-0-						5.8		-5.8		1793.9	-	583	π	
17	S	880		89-06-59				4.0		+9.6		1809.3	-	584		
18	"	1760		88-54-00				4.0		+29.8		1829.5	-	585		
19	"	2640		88-56-35				10.0	+38.7	+38.9		1838.6	0	586	1838.2	
20	"	2640		271-03-47				10.0	39.0				0			

71-588B

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**STADIA SURVEY NOTES**

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 66  
 LINE No.(s) 87 PARTY No. 1184 DATE 14 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN D. Calahan WEATHER: Clear P.T.S. No. \_\_\_\_\_

13.32  
1.0

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												1838.6			
2															
3	N	2640		89-29-27				5.0	-18.5	-18.6	1820.0		A	586	
4	"	2640		270-30-55				5.0	-18.7				A		
5	"	1760		89-41-20				4.0	+5.6		1825.6		-	587	
6	"	880		89-45-53				4.0	-0.4		1819.6		-	588	
7		-0-						5.9	-5.9		1814.1			589	π
8	S	880		91-45-49				4.0	-31.1		1788.9		-	590	
9	"	1760		91-26-08				4.0	-48.1		1771.9		-	591	
10	"	2640		91-18-16				5.0	-65.1	-65.0	1755.0		0	592	1754.5
11	"	2640		268-42-00				5.0	-64.9				0		
12	N	2640		90-17-30				10.0	+23.4	+23.5	1778.5		A		
13	"	2640		269-42-17				10.0	+23.6				A		
14	"	1760		90-28-32				4.0	-18.6		1759.9		-	593	
15	"	880		90-39-11				4.0	-14.0		1764.5		-	594	
16		-0-						5.8	-5.8		1772.7			595	π
17	S	880		89-33-03				4.0	+2.9		1781.4		-	596	
18	"	1760		89-35-25				10.0	+2.6		1781.1		-	597	
19	"	2640		89-33-18				5.0	15.5	+15.6	1794.1		0	598	1793.5
20	"	2640		270-26-56				5.0	15.7				0		

TI-588B

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**STADIA SURVEY NOTES**

AREA Kuna River STATE or PROVINCE Alaska PAGE No. 67  
 LINE No.(s) 87 PARTY No. 1184 DATE 14 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN D. Callahan WEATHER: Partly Cloudy P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											1994.1				
2															
3	N	1870		92-55-18			10.0	105.3	+105.4	1899.5		Δ	598		
4	"	1870		267-04-31			10.0	105.4				Δ			
5	"	990		93-57-40			4.0		-72.4		1827.1	-	599		
6	"	110		94-41-42			4.0		-17.0		1886.5	-	600		
7		-0-					5.9		-5.9				600 + 110' X		
8	S	550		85-57-47			14.0	24.7	+24.8		1924.3	0	600 + 550		
9	"	550		274-02-29			14.0	24.8				0		1923.7	
10	N	1210		89-26-30			5.0	-8.9	-9.0	1915.3		Δ			
11	"	1210		270-39-46			5.0	-9.0				Δ			
12		890		90-07-22			4.0		-5.9		1909.4	-	601		
13		-0-					5.9		-5.9		1909.4		602	X	
14	S	880		91-10-48			4.0		-22.1		1893.2	-	603		
15	"	1760		90-51-42			10.0	-36.5	-36.3		1879.0	0	604	1878.4	
16	"	1760		269-08-46			10.0	-36.2							
17	N	1210		90-12-20			10.0	+14.3	+14.3	1893.3		Δ			
18	"	1210		269-47-54			10.0	+14.3				Δ			
19	"	330		89-47-41			4.0		-2.8		1890.5	-	605		
20		-0-					5.9		-5.9				605 + 330 X		

TI-588B

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### STADIA SURVEY NOTES

AREA Story Creek STATE or PROVINCE Alaska PAGE No. 68  
 LINE No.(s) 87 PARTY No. 1184 DATE 15 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN D. Calahan WEATHER: Cold - Windy P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												1893.3				
2																
3	S	550		90-55-38				4.0		-12.9		1880.4	-		SP-606	
4	"	1100		90-49-47				10.0	-25.9	-25.9		1867.4	0		SP-606 + 558	GP-3
5	"	1100		269-10-39				10.0	-25.8				0			1866.7
6	N	1980		90-12-08				10.0	+17.0	+16.6	1884.0		Δ			
7	"	1980		269-49-14				10.0	+16.2				Δ			
8	"	1650		91-12-26				4.0		-38.8		1845.2	-			
9	"	770		94-48-13				4.0		-68.5		1815.5	-			
10		~0~						5.8		-5.8		1878.2			GP-12	
11	S	110		88-03-40				4.0		-0.3		1883.7	-			
12	"	660		85-49-50				10.0	38.9	+39.0		1923.0	0		GP-15	1922.3
13	"	660		274-15-52				10.0	39.1		<del>1954.5</del>		0			
14	N	2860		90-26-05				10.0	31.7	+31.5	1954.5		Δ			
15	"	2860		269-34-25				10.0	31.3				Δ			
16		~0~						5.8		-5.8						
17	S	1540		88-52-01				10.0	20.5	+20.5		1975.0	0			
18	"	1540		271-08-11				10.0	20.5				0			
19	N	2420		90-43-42				10.0	40.8	+40.5	2015.5		Δ			
20	"	2420		269-17-03				10.0	40.2				Δ			

TI-588B

WORKED BY \_\_\_\_\_ CHECKED BY 1st \_\_\_\_\_ 2nd \_\_\_\_\_

**STADIA SURVEY NOTES**

AREA Story Creek STATE or PROVINCE Alaska PAGE No. 69  
 LINE No.(s) 87 PARTY No. 1184 DATE 15 Day 5 Mo. 77 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN D. Calahan WEATHER: Bad 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												2015.5				
2		0							5.8	-5.8		2009.7				π
3	S	1740		90-14-52					5.0	-12.5	-12.5	2003.0	0			
4	"	1740		269-45-25					5.0	-12.4			0			
5	N	2240		<del>90-43-59</del>			90-43-05		10.0	+38.1	+37.8	2040.8	Δ			
6	"	2240		269-17-42					10.0	+37.6			Δ			
7		-0-							5.9	-5.9		2034.9				π
8	S	2860		85-59-43					10.0	189.7	+189.9		0			
9	"	2860		274-00-57					10.0	190.3			0	BAS 2717	2229.8	
10												2230.7				
11												2229.8			TRUE ELEVATION	
12												+0.9			MIST	
13																
14																
15																
16																
17																
18																
19																
20																

13.2  
5.0  
2.0  
11.2  
14.3  
0.0

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WORKED BY \_\_\_\_\_

CHECKED BY 1st \_\_\_\_\_

2nd \_\_\_\_\_