

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. \_\_\_\_\_  
 LINE No.(s) Line 20 PARTY No. 184 DATE 1 Day 4 Mo. 75 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D STONE RODMAN \_\_\_\_\_ WEATHER: fair 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												32.4	N 2	- 77	TAKE OFF TOP
2															Pipe SP18 LINE 26
3	W	340		-0°55'		C			10.0	+5.4	37.8		Δ		331
4												32.8			
5		0	-			C			5.0	+5.0		42.8	Δ	SP12	OFF set 330 ft
6															
7	E	1320		+0°02'		C			15.0	-15.8		22.0	Δ	SP12	off/set
8															
9	E	2640	-			C			14.3	-14.3		23.5	Δ	SP12	off/set
10															
11	E	3960	-			C			8.2	-8.2		29.6	Δ	SP12	off/set
12	W	3960		+0°11'		C			15.0	+2.3	31.9		Δ		
13															
14	W	2640		+0°05'		C			10.0	-6.2		25.7	Δ	SP12	
15															
16	W	1320		-0°08'		C			4.0	-7.1		24.8	Δ	SP12	324
17															
18		0	-			C			8.8	-4.8		27.1	Δ	SP12	325
19															
20	E	1320	-			C			4.0	-4.0		27.9	Δ	SP12	324

TI-598B

WORKED BY Lowance

CHECKED BY 1st Stone

2nd

STADIA SURVEY NOTES

AREA NDG-4 STATE or PROVINCE Alaska PAGE No. 1  
 LINE No.(s) 75 PARTY No. 184 DATE 1 Day 3 Mo. 15 Yr. BOOK No. 3  
 SURVEYOR D. J. [unclear] RODMAN D. [unclear] WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. -S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1																	
2	E	2640		100°					+4.0	+4.6	38.6	34.0	Δ	394 26	32.9	Intersection of Lines	
3																	37.0
4	F	1650		70°					-4.3	-6.5		32.1		SP	332		
5																	
6	E	1320		100°						-7.0		31.6		SP	332		
7																	
8		330								-5.6		33.0		SP	333		
9																	
10		0															
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

From Reciprocal Angles  
 Worked back from line  
 WORK BACK

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. \_\_\_\_\_  
 LINE No.(s) 26 PARTY No. 1184 DATE 1 Day 4 Mo. 75 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. STONE RODMAN \_\_\_\_\_ WEATHER: Fair P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	E	2640	-				C		4.0		-4.0	27.9		SP#323		
4																
5	E	3960		+0°05'			C		4.0		+1.8	33.7		O SP#322		
6	W	3620	-				C		+10.5		+10.5	44.2		Δ		
7																
8	N	2300		-0°27'			C		4.0		-22.1	22.1		SP#321		
9																
10	W	980		-0°51'			C		4.0		-18.5	25.7		SP#320		
11																
12		0	-				C		5.0		-5.0	39.2		Δ SP#1 +340		29 N2-292 (41.1)
13																
14	E	340		-0°17'			C		15.0		-16.7	27.5		- SP#1		
15																
16	E	2800		-0°03'			C		15.0		-17.4	26.8		O SP#8 Tail		
17	W	1980	-				C		+6.0		+6.0	32.8		Δ		
18		0	-				C		4.8		-4.8	28.0		Δ SP#14 Tail		
19	W	3300		-0°02'			C		5.0		-6.9	25.9		O Tail #1		N2-294
20																Center Target

TI-5898

WORKED BY Lowance

CHECKED BY 1st D.I.

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

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 7  
 LINE No.(s) 26X PARTY No. 184 DATE 1 Day 3 Mo. 75 Yr. BOOK No. 3  
 SURVEYOR DAVE DUSAL RODMAN Jenson WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2		<u>4455</u>														
3	E	<u>4785</u>														
4		<u>0</u>														
5	W	<u>1815</u>														
6																
7	W	<u>2125</u>														
8	E															
9																
10																
11																
12		<u>0</u>														
13																
14	W	<u>3115</u>														
15		<u>3835</u>														
16	E	<u>2315</u>														
17																
18	E	<u>2145</u>														
19																
20		<u>825</u>														

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

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

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

*M. J. D.*



### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 4  
 LINE No.(s) 26 PARTY No. 184 DATE 1 Day 3 Mo. 25 Yr. BOOK No. 3  
 SURVEYOR DAVE DUSDAL RODMAN \_\_\_\_\_ 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																
2																
3	E	14.60 <sup>v</sup>	90223					+4.0		+5.0	38.1	31.1	Φ	SP		<del>327.415 (N2-88)</del>
4		0														
5		0						-4.6		-4.6		33.5	Φ	SP		327.555 (N2-88) ✓ → to line 15, this page
6																
7	W	7.5	90210					-4.0		-8.7		29.4		SP		327.346
8																
9																
10																
11	W	38.25 <sup>v</sup>	90223					-3.2		+10.2	?	37.4	○	SP		328.110 (N2-88) ✓
12																
13																
14																
15	E	30.5 <sup>v</sup>	90223					+2.7		+8.9	46.3		Φ			327.115
16																
17	E	17.95 <sup>v</sup>	90328					-4.0		-20.3		26.0		SP		327.347
18																
19	E	4.20	91552					-4.0		-18.1		28.2		SP		327.348
20																

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 5  
 LINE No.(s) 26 PARTY No. 184 DATE 1 Day 3 Mo. 75 Yr. BOOK No. 9  
 SURVEYOR DAVE DUSDAL RODMAN \_\_\_\_\_ 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																348
2		0													SP	348 + 42.7 (12-99)
3																349
4	W	900		90245						-8.2			34.9	0	SP	34 (N2-90) ✓
5																
6		0														
7																
8	W	1320														
9																
10	W	2543														
11																
12	E	3240		902744	50°18'53"					+19.5 +22.1		54.4	34.9	0		349 (N2-90) ✓
13					Recorded in Reciprocal angles											
14	E	1920		905530						-36.0			19.4		SP	350
15																
16	E	600		914038						-21.2			32.8		SP	33351
17																
18		0								-5.2			49.2	✓	SP	351 33+600 NPR-91 ✓
19																
20	W	720		900438						-5.0			49.4		SP	34352

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

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

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

*M. W. Dusk*

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 3  
 LINE No.(s) 26 PARTY No. 184 DATE 1 Day 3 Mo. 75 Yr. BOOK No. 1  
 SURVEYOR DAVE DUSDAL RODMAN 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																	
2	W	2040'		8959.52					-7.0	-3.9		50.5	⊙	SP	3534		
3	E	1035'		8938.14					14.0	-26.4	47.5		Δ				
4																	
5		0							-5.2	-5.2		42.3					
6																	
7	W	285'		9107.3					-4.0	-9.2		38.3		SP	3537		
8																	
9	W	1605'		9039.16					-9.2	-22.3		25.2		SP	3538		
10																	
11	W	2925'		9037.24	90 27 24 ?				-4.0	-27.3		20.2	⊙	SP	3536		
12																	
13	E	1815'			NO Angle				14.0		47.8		Δ			67.7	
14																	
15	E	495'		9019.39					-4.2	-6.8		41.0		SP	3535		
16																	
17		0							5.2	-5.2		42.6		SP	3534		
18																	
19	W	825'		9128.46					-4.0	-25.3		22.5		SP	3538		
20																	

SP 3534 / 1055 H2V  
 from Reciprocal Angles 92

these points same elev.

Recip. Elev. 42.5  
 SP 3534 / 1055 H2V 42.93

WORKED BY \_\_\_\_\_ CHECKED BY 1st [Signature] 2nd \_\_\_\_\_



### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 2  
 LINE No.(s) 26 PARTY No. 124 DATE 1 Day 3 Mo. 25 Yr. BOOK No.   
 SURVEYOR DAVE DUDAL RODMAN  WEATHER:  P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			△ B.S. OF S. - S.S. Recp. Elev.
1																
2	E	25.50		89°34'16"								46.1	0	N2-94	5.0	
3														SP		(N2-94) 320
4	E	1320		89°54'16"										SP	362	
5																
6		0												SP	363	
7	<del>W</del>	<del>1320</del>														
8	<del>W</del>	<del>1320</del>														
9																
10	W	825		89°10'58"								40.6	Recp. Elev.	SP	46.5	(N2-95)
11																3 SP-363 + 825
12																
13																
14																
15																
16																
17																
18																
19																
20																

WORKED BY

CHECKED BY 1st M. M. D. D.

2nd

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 1  
 LINE No.(s) 26 PARTY No. 1184 DATE 1 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: SPIN Cold 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																	46.5 ✓
2																	70 OFF TAKE OFF N <sup>o</sup> -95
3	E 1815	1200		+00' 22.00"													= SP 263 2825
4																	260
5		1320		+00' 20.00"													SP 364
6																	
7																	SP 365
8																	
9	N	1320		+00' 24.00"													40.1
10	E 2640	1320		+00' 12' 00"													39.9
11																	
12		1320		-00' 05' 00"													SP 367
13																	
14																	SP 268
15																	
16	W	1320		+00' 15' 00"													36.7
17	E	2640		+00' 19' 00"													26.1
18																	
19		1320		-00' 01' 00"													SP 370
20																	

TI-588B #

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

CHECKED BY 1st L. D. L.

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

### STADIA SURVEY NOTES

AREA N.P.R. 4 STATE or PROVINCE Alaska PAGE No. 2  
 LINE No. (s) 26 PARTY No. 1184 DATE 1 Day 3 Mo. 25 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Cold P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1														
2														
3		0								+4.5	15.7	X	SP 371 } 1184	
4										+0				
5		132.0		+0°02'00"						-4.0	-3.2		SP 372	
6														
7	W	264.0		+0°01'00"						-4.0	+9.8	0	SP 373 } TP SP 373 + 0.0 N2-96 ✓	
8	E	132.0		+0°01'00"						+5.3	-12.4	A	18.7 } - check 11.25	
9														
10		0									-4.5		X SP 374 } 1184	
11														
12		132.0		+0°01'00"							-5.2		SP 375	
13														
14	W	264.0		+0°02'00"						4.0	-2.5	0	SP 376 } 21.0	
15	E	106.5		+0°01'00"						+4.0	+24.8	A	41.0 } 45.0	
16	W	255		+0°01'00"						-4.0	76.4		SP 377	
17	W	157.5		+0°01'00"						-4.0	-2.6	0	SP 378 } TP 378 + 7.25 NO. 1184	
18	E	72.5		+0°01'00"						+4.0	+13.1	A	51.5 } N2-97 ✓	
19	W	59.5		+0°01'00"						+4.0	-13.5		SP 379 } TP 380 + 0.0	
20	N	19.5		+0°01'00"						-6.0	-33.8	0	SP 380 } P.C. set here N2-98 ✓	

TI-566B

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

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

Ground Elev. —

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

TP 380 + 0.0  
P.C. set here

### STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE ALASKA PAGE No. 3  
 LINE No.(s) 26 PARTY No. 1184 DATE N Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Clear, Fair 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														
4	E	132.0	00°50'	16'										
5	E	"	00°00'	17'	(Re-run)									
6														
7	W	42.0	+1°12'		(see Re-Run-Page 3A)									
8	N	<del>45.0</del>	<del>00°40'</del>											
9	F	52.0	02°22'											
10														
11	E	16.70	00°39.1'											
12	E	75.0	00°30'											
13														
14														
15														
16	W	97.0	00°08'											
17	E	26.40	100°26.0'											
18														
19		132.0	00°07.0'											
20														

TI-588B

WORKED BY \_\_\_\_\_ CHECKED BY 1st L. Dal 2nd \_\_\_\_\_

**STADIA SURVEY NOTES**

*Rea shot  
This date*

AREA NIPR-4 STATE or PROVINCE ALASKA PAGE No. 3-A  
 LINE No.(s) 26 PARTY No. 1180 DATE 11 Day 3 Mo. 75 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Clear Good P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2															
3	E	1320		-0°04'	0.12	c									
4															
5				-0°06'	0.18	c									
6															
7															
8															
9	W	1150		<u>101°12'</u>	2.09	c									
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

Top of Pipe 19.8 12-98 22.5  
 30380 Line 26 24.1  
 +0.0 +1.6 +1.6 21.4 Δ  
 0.0 -2.3 19.1 -  
 Top Pipe Inter Section Line 46 of 26  
 51 +24.0 +19.0 40.4 0 ← Top of Target 23.1

*REAR RUN  
 Mistake Found  
 IN TURN  
 Top of Target  
 Line #9 +24.0  
 With old shot reversed  
 to a +.*

TI-558B

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

CHECKED BY 1st D. Stone

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

### STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE ALASKA PAGE No. 4  
 LINE No.(s) 26 PARTY No. 1184 DATE 2 Day 3 Mo. 5 Yr. BOOK No. 4  
 SURVEYOR D. Stooe RODMAN \_\_\_\_\_ WEATHER: clear, fair 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															
2															
3		0						-4.5	-4.5		18.6	7	SP385	24.4	
4															
5		1320		-00°05'		C		-4.0	-5.9		19.2		SP386		
6															
7		2640		-00°03'00"		C		-4.0	-6.3		16.8		SP387		
8															
9	W	3960		+00°14'00"		C		-4.0	+12.1		35.2	0	SP388	36.5	
10	E	2640		+00°17'00"				+4.0	-8.3	26.9				29.2	
11															
12		1320		-00°08'00"				-4.0	-7.1		19.8		SP389		
13															
14		0						4.5	+4.5		22.4	A	SP390		
15															
16		1320		-00°11'		C		-4.0	-8.2		18.7		SP391		
17															
18	W	2640		+00°08'00"		C		-4.0	+2.1		29.0	0	SP392	30.3	
19															
20															

TI-588B

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

CHECKED BY 1st L. Det

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

### STADIA SURVEY NOTES

AREA NPRA STATE or PROVINCE ALASKA PAGE No. 5  
 LINE No.(s) 26 PARTY No. 1184 DATE 2 Day 3 Mo. 75 Yr. BOOK No. A  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Clear, Fair P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	E	2640		+00°22'00"	C		+4.0		+2.5	31.5		A				32.3 32.8
4																
5		1320		-00°00'00"	C		-6.0		-7.5		24.0					393
6		1														
7		0					-4.5		-4.5		24.0					394
8																
9	W	1320		+00°26'00"	C		-4.0		+6.0	59.1	37.5					38.8
10	E	2325		-00°21'30"	C		+4.0		+21.6	56.1		A				60A
11																
12	E	1065		-00°38'00"	C		-4.0		-15.1		41.0					
13																
14		0						3.8	+3.8		52.3					100 59.70 + 1005 TP. 3 56.6
15		315		-00°25'	C		-4.0		-6.3		49.8					
16																
17																
18	W	1335		-00°09'00"			-6.0		-10.3		45.8					50.1
19																
20																

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

### STADIA SURVEY NOTES

AREA: NPR 4 STATE or PROVINCE: ALASKA PAGE No. 6  
 LINE No.(s): 26 PARTY No. 1184 DATE: 2 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR: D. Stone RODMAN: \_\_\_\_\_ WEATHER: Clear, Fair P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	E	825		+0°06'00"				+3.9		+2.5	48.3					52.1
4																52.6
5		0						-4.5		-4.5		43.8				
6																
7		495		-0°30'00"				-6.0		-17.5		26.3			52397	
8																
9		1315		-0°45'00"				4.0		-27.8		16.0			52404	
10																
11	W	3125		+0°37'00"				-4.0		-28.6		15.2			52401	24.0
12	E	2640		-0°15'00"				+4.6		+15.5	30.7					39.5
13																
14		1320		-0°24'00"				-4.0		-13.2		17.5			52402	
15																
16								-1.5		-4.5		26.2			52403	
17																
18		1320		-0°19'00"				-4.0		-11.3		19.4			52404	
19																
20	W	2600		-0°04'00"				-4.0		-7.5		23.6			52405	32.4

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### STADIA SURVEY NOTES

AREA N.P.R.A. STATE OR PROVINCE ALASKA PAGE No. 7  
 LINE No.(s) 26 PARTY No. 1104 DATE 3 Day 3 Mo. 25 Yr. BOOK No. 4  
 SURVEYOR D Stone RODMAN \_\_\_\_\_ WEATHER: Windy P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1																	<u>TR SP 405</u>
2																	32.9
3	E	495		-0°12'				+4.0		+5.7	34.1						38.1
4																	
5	N	0						3.3		+3.3		30.8					<u>TR SP 405 + 495</u>
6																	33.8
7	N	825		-20°26'			0	-4.0		-10.2		23.9					SP 406
8																	
9	W	2195		-8°11'			C	-4.0		-10.8		23.2					SP 407
10	E	2640		-0°02'			C	+4.0		+6.3	29.5						27.3
11																	33.6
12	E	1320		-0°02'			C	-4.0		-4.8		24.7					SP 408
13																	
14		0					C	-4.5		-4.5		25.0					SP 409
15																	
16	W	1320		0°15'			C	-4.0		-7.8		21.7					SP 410
17																	
18	N	<del>1260</del> 2580		-0°07'				-4.0		-9.2 -6.6		18.8					<u>SP 410 + 1260</u>
19																	<u>Ground</u>
20																	

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Wrong distance used - should be 1320 + 1260 = 2580' total

Use +4  
 to 6 22.8 Elev.  
 East - long line

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 8  
 LINE No.(s) 26 PARTY No. 1184 DATE 3 Day 3 Mo. 25 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN But WEATHER: Clear, Fair P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1																	
2																	
3																	
4		0															
5		0															
6	N	1023		to 11°	.32												
7																	
8	S	297		to 0°	.03												
9																	
10	W	60		0102	1.8												
11		895															
12	W	82		to 50°													
13	E	2875 1815		to 00°	.12												
14																	
15		1320		to 05°													
16																	
17		0															
18																	
19		1320		to 19°													
20																	

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### STADIA SURVEY NOTES

AREA NPR-4 STATE OR PROVINCE ALASKA PAGE No. 9  
 LINE No.(s) 26 PARTY No. 1184 DATE 3 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D Stone RODMAN \_\_\_\_\_ WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB S. OF S. - S.S.	Station	REMARKS		
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD					
1																		
2																		
3	✓	2640		-0°08'							-4.0	-10.1	15.2	0	SP415		Work Back 20.9	
4	E	2750		-0°12'							+4.0	+12.2	29.4	▲			33.1	
5																		
6	F	1030		-0°20'							-4.0	-22.0	25.4		SP416			
7	<b>From LIBBY by Reciprocal Angles (TOP of Pipe)</b>																	
8		0									74.7	74.7	32.1	↗	SP416 + 1030		103 PIP. Ht. 30.9	
9																		
10	W	290		-0°37'							-4.0	-18.2	15.2		SP417		HI: FROM HUB FROM TOP OF PIPE	
11																		
12	W	2020		-0°20'							-4.0	-13.4	14.0		SP415		HI: IS 1.0 use	
13																		
14	W	2250		-0°17'							-4.0	-18.5	8.9		SP414		14.6	
15	E	2622		-0°02'							+4.0	+5.5	14.4	▲			20.1	
16																		
17		2000		-0°01'							-4.0	-6.3	8.1		SP420			
18																		
19		0									-4.0	+4.8	9.6	↖	SP421			
20																		

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Work Back  
 Work Ahead

### STADIA SURVEY NOTES

AREA NPR-4 STATE OR PROVINCE ALASKA PAGE No. 10  
 LINE No.(s) 26 PARTY No. 1184 DATE 3 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D Stone RODMAN \_\_\_\_\_ WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲ B.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1																	
2																	
3	V	1320			+0°05'												
4																	
5	W	2640			+0°25'												
6	E	495			+0°53'												
7																	
8		0	-				C										
9																	
10	W	825			-0°03'		C										
11	E	825			+0°19'		C										
12																	
13							C										
14																	
15		475			-0°07'		C										
16																	
17	W	1815			+0°15'		C										
18																	
19																	
20																	

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 11  
 LINE No.(s) 26 PARTY No. 1184 DATE 3 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D Stone RODMAN \_\_\_\_\_ 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																	<u>TX SP 426</u>
2																	<u>52.7</u>
3	<u>E</u>	<u>2640</u>		<u>-0°02'</u>		<u>c</u>		<u>+4.0</u>		<u>+5.5</u>	<u>56.0</u>						<u>58.7</u>
4																	
5	<u>E</u>	<u>1320</u>		<u>-0°46'</u>		<u>c</u>		<u>4.0</u>		<u>-21.7</u>		<u>34.3</u>			<u>SP427</u>		
6																	
7		<u>0</u>	<u>-</u>			<u>c</u>		<u>4.8</u>		<u>+4.8</u>		<u>51.2</u>			<u>X SP428</u>		
8																	
9	<u>W</u>	<u>1320</u>		<u>-0°13'</u>		<u>c</u>		<u>4.0</u>		<u>-9.0</u>		<u>47.0</u>			<u>SP429</u>		
10																	
11	<u>W</u>	<u>2640</u>		<u>-5°03'</u>		<u>c</u>		<u>4.0</u>		<u>-6.3</u>		<u>49.7</u>			<u>SP430</u>	<u>+100.0 FA</u>	<u>52.7</u>
12	<u>E</u>	<u>1637</u>		<u>-0°18'</u>		<u>c</u>		<u>+4.0</u>		<u>+12.6</u>	<u>68.2</u>						<u>65.0</u>
13																	
14	<u>F</u>	<u>317</u>		<u>-0°55'</u>		<u>c</u>		<u>4.0</u>		<u>-9.1</u>		<u>59.1</u>			<u>SP431</u>		
15																	
16		<u>0</u>				<u>c</u>		<u>4.8</u>		<u>-4.8</u>							
17								<u>-1.0</u>		<u>to TOP of PIPE</u>							
18	<u>H</u>			<u>-0°57'</u>		<u>c</u>		<u>4.0</u>									
19																	
20	<u>S</u>	<u>336</u>		<u>+0°56'</u>		<u>c</u>		<u>4.0</u>		<u>-8.9</u>		<u>59.3</u>			<u>SP 432</u>	<u>- LINE</u>	<u>48</u>

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 12  
 LINE No.(s) 26 PARTY No. 1184 DATE 3 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	W	1003		-0°24'				4.0		-11.0		57.2		SP432		
4																
5	W	2323		-0°29'				<del>4.0</del>	6.0	-25.6		42.6		<del>SP433</del>		
6																
7	W	3643		-0°22'				4.0		-27.3		40.9	⊙	SP434	37.7	
8	E	2640		-0°13'00"				+4.0	+	+14.0	50.6		▲		51.2	
9																
10		1370		-0°23'00"				4.0		-12.8		37.8		SP435		
11																
12								4.8		4.8		45.8		SP436 + 0.0 T.P.		
13																
14		1320		-0°24'				2.0		-13.2		37.4		SP437		
15																
16	W	2330		-0°12'				6.0		-15.2		38.6	⊙	SP438 + 0.0 T.P. 36.5		
17								2.0		-17.2				Iron Pipe		
18																
19																
20																

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### STADIA SURVEY NOTES

AREA NPR-A STATE or PROVINCE ALASKA PAGE No. 13  
 LINE No.(s) 26 PARTY No. 1184 DATE 3 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1																
2																SP438 Loose TP
3	E	2640		0°00'				+6.0	-11	+17.5	46.2					36.5
4																54.0
5		01320						-4.8		74.8		41.4				N2-109
6																SP439 + 00.0
7	W	1320		0°09'				28.0		-7.5		38.7				Center Target
8																SP440
9	W	2640		0°08'				-4.0		-10.1		36.1				SP441
10	E	825		0°34'				+4.0		+12.2	54.0					43.9
11																56.1
12		0						-4.0		74.8		49.2				SP441 825
13																
14		495		0°01'				-4.0		-5.0		49.0				SP442
15																
16	W	185		0°10''				-4.0		-9.3		44.7				SP443
17																SP443 + 00.0 TP
18																top
19																SP-stake
20																

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### STADIA SURVEY NOTES

AREA NPR-A STATE or PROVINCE ALASKA PAGE No. 14  
 LINE No.(s) 26 PARTY No. 1184 DATE 3 Day 3 Mo. 25 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	E	2640		+0°01'00"				4.0	0.8	+3.2	55.7					TK SP443 +00.0 TP 46.3 50.0
4																
5	E	1320		-0°07'00"			C	4.0		-6.7			49.0		SP444	
6																
7		0	-				C			+3.8			59.5		TK SP445	
8																
9	W	1320		-0°08'00"			C	4.0		-7.1			48.6		SP446	
10																
11	W	2640		-0°02'00"			C	4.0		-5.5			50.2		SP447	44.5
12	E	2640		-0°01'00"			C	4.0		+9.4	59.6					53.9
13																
14	E	1320		-0°17'00"			C	4.0		-10.5			49.1		SP448	
15																
16		0	-				C	4.0		-4.8			54.8		TK SP449 +00.0 TP	
17																
18	W	1320		-0°19'00"			C	4.0		-11.3			48.3		SP450	
19																
20	W	2640		-0°12'00"			C	4.0		-13.2			46.4		SP451	49.7

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

**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 15  
 LINE No.(s) 26 PARTY No. 118A DATE 3 Day 3 Mo. 25 Yr. BOOK No. 4  
 SURVEYOR D-Stone RODMAN \_\_\_\_\_ 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																TK SP451 10.7
2																
3	E	2640		+0°16'				+4.0	2.0	+8.3	61.6					43.0
4																
5	E	1370		-00°30'			C	-4.0		-15.5 -3.2		46.1			SP452	
6																
7		0		-			C									
8								4.8		7.48		56.8				SP453 +00.0 T.P. over for intersection
9	W	1326		-0°01'			C	-4.0		-4.4		57.2				Hi=Center Target
10																
11	W	2640		+0°01'			C	-4.0	0.8	-3.2		58.4				SP455 +00.0 T.P. 15.3
12																
13																
14																
15																
16																
17																
18																
19																
20																

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

### STADIA SURVEY NOTES

AREA NAR-4 STATE or PROVINCE ALASKA PAGE No. 16  
 LINE No.(s) 26 PARTY No. 1184 DATE 4 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Clear P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															TRSPA55 45.8
2															
3	E	1320		+0°09'				+4.0		+0.5	56.4				46.3
4															
5		0						+4.8		-4.0		52.7		TR SPA56	
6															
7	W	1320		-0°03'				4.0		-5.2		51.5		TR SPA57 <del>TR SPA58</del>	47.1
8															
9	<del>W</del>	<del>2640</del>		<del>+0°04'</del>				<del>4.0</del>						<del>TR SPA58</del>	
10															
11															
12	E	1320		-0°01'				+6.0		+6.4	57.9			- Rod	47.5
13															
14	E	825		+0°11'				6.0		-2.2		55.7		(N.2 - NOT USED) TR PA57 PA95	
15															
16		0		-				4.8		-4.8		53.1		TR SPA58	
17															
18	W	1320		+0°11'				<del>4.0</del>		+4.2		62.1		TR SPA59 +0.0 TP TOP OF PIPE	51.7
19															
20															

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### STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE ALASKA PAGE No. 17  
 LINE No.(s) 26 PARTY No. 1184 DATE 4 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Fair P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3																TK TOP OF Sta.
4		0									+1.1	66.0				N2- SP459+00 TP
5																
6	W	1320		+0°14'							-4.0	-9.4	56.6	0	SP460	
7	E	2640		-0°04'							+4.0	+7.4	63.7			
8																
9	E	1320		-0°07'							-4.0	-6.7	57.0		SP461	
10																
11		0														
12																
13	W	1320		+0°19'							-4.0	+3.3	67.0	0	SP462	
14	E	750 <del>224</del>		-0°11'							-4.0	+6.4	73.4			
15																
16		0														
17	W	570 <del>570</del>		-0°34'							-0.3	-0.3	66.0			No 114 Hi-From Contg Target
18																
19	W	1890 <del>1890</del>		-0°11'							-4.0	-10.5	62.9		SP467 + 72.5 TP	
20																

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### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 18  
 LINE No.(s) 26 PARTY No. 1184 DATE 4 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Fair 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																	TK SP465
2																	
3	E W	1320		+0°10'		C			+4.0		+0.2	63.4					
4																	
5		0							4.8		4.8		50.6	X			SP466
6																	CV-2 115
7	W	1320		+0°02'		C			-4.0		-3.2		60.8	O			SP467 +100.0 T.P.
8	E	1320		+0°14'		C			+4.0		-1.4	58.8					Top sp stake
9																	
10		0							4.8		4.8		54.0	X			SP468
11																	
12	W	1320		+0°08'		C			-4.0		-0.9		57.9				SP469
13																	
14	W	2640		+0°10'		C			-4.0		+3.7		62.5	O			SP470
15	E	825		+0°08'		C			+4.0		+5.9	68.4					
16																	
17		0							4.0		4.0		63.6	X			CV-116
18																	SP470 +225 T.P.
19	W	495		+0°52'		C			4.0		+3.5		71.9				Hi = Center Target
20																	SP471

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**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 19  
 LINE No.(s) 26 PARTY No. 1184 DATE 4 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: FAIR 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												60.4				
2																
3	W	1815		-0°22'		C			-4.0		-15.6	52.8		O	SP472	
4																
5	E	1320		-0°10'		C			+4.0		+7.8	60.6		A		
6		0														
7																
8																
9	W	1320		-0°06'		C			-4.0		-6.3					SP474
10																
11	W	2640		-0°05'		C			-4.0		-7.8	52.8		O	SP475	
12	E	1815		-0°14'		C			+4.0		+11.4	64.2		A		
13																
14	E	495		-0°42'		C			-4.0		-10.0					SP476
15		0														
16																
17												44.9				SP496+495 T.P
18	W	825		+0°04'		C			-4.0		-5.0	59.2		O	SP477+477	His Center Target
19																
20																

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

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 20  
 LINE No.(s) 26 PARTY No. 1184 DATE 4 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN WEATHER: Clear P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												59.2			
2															
3	E	2640		+0°13'		c		+4.0		-6.0	53.2				
4															
5	E	1320		0°00'		c		-4.0		-4.0		38.4		SP478	
6															
7		0						4.8		-4.8		3		K SP479	
8															
9	V	1320		-0°05'		c		-4.0		-5.9		27.5		SP480	
10															
11	W	2640		-0°01'		c		-4.0		-4.8		48.4		O SP481	(474 Pa. 05)
12	E	1320		-0°09'		c		+4.0		+7.5	54.9				
13												(51.1)			
14		0						4.8		-4.8		35.3		N SP482	(N2-118 SP482 1000 TD Hi = Center Target)
15															
16	W	1320		-0°22'		c		-4.0		-12.4				Sp483	
17															
18	W	2640		-0°09'		c		-4.0		-10.9		45.0		O Sp484	
19															
20															

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

### STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 21  
 LINE No.(s) 26 PARTY No. 1184 DATE A Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN WEATHER: Clear P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												45.0			TK SP484
2															
3	E	2475		-0°01'		c		+4.0		+4.7	49.7				
4															SP485
5		<del>15582</del>		-0°07'		C		-4.0		-6.4					SP485
6															
7		0		-		C		7.8		-4.8					T SP485+825 1155
8															
9		165		-0°56'		C		-4.0		-9.6					SP486 486
10															SP487
11	W	1485		-0°07'		C		<del>4.0</del>		-3.0		46.7			SP487 LAST SP TIP
12															PIPE
13	E	2475		-0°18'		C		<del>14.0</del>		+13.0	59.7				
14															
15		0		-		C		4.8		-4.8					T Gp 48
16															
17	W	2640		+0°10'		C		-6.0		+1.7		61.4			Gp 416 100.0 TA
18															
19															
20															

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2nd

**STADIA SURVEY NOTES**

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. ~~522~~  
 LINE No.(s) 26 PARTY No. 1184 DATE 4 Day 3 Mo. 75 Yr. BOOK No. 4  
 SURVEYOR D. Stone RODMAN \_\_\_\_\_ WEATHER: Fair P.T.S. No. \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. O.F.S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1																	
2																	
3	E	2640		40°12'					46.0		-3.2	58.2					
4																	
5		0							08		-0.8	57.4					FWZ GP24 west EOL.
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

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