

STADIA SURVEY NOTES

AREA IKPIKPUK RIVER - KEY CREEK STATE or PROVINCE ALASKA, NORTH SLOPE PAGE No. 1
 LINE No.(s) 102 PARTY No. 1182 DATE 23 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMANTIM VANALLEN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. -S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1																	
2																	
3																	4 HS
4																	25.1
5																	PIPE
6																	LOOP FROM 18 THRU 1
7		2640		90	46 37				+8.2	+43.8		73.2	67.7	Δ	16		BACK TO 18
8				269	13 29				+8.2	+43.8				Δ			29.4
9																	18
10		1320		91	42 06				-6.5				27.6		17		29.4
11																	
12		1320		91	46 55				-4.0				28.2		15		29.4
13																	
14		2640		90	42 48				-4.0				36.5		14		29.4
15																	
16		3960		90	28 40				-4.0				36.5		13		29.4
17																	
18		5280		90	05 06				-4.0				62.0		12		29.4
19																	
20		6600		89	56 00				-4.0				77.8		11		29.4

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AREA IKPIKPUK-KEY STATE or PROVINCE ALASKA PAGE No. 2
 LINE No.(s) 102 PARTY No. 1182 DATE 23 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR J.S. RODMAN T.V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1																
2		0		90				+5.5			73.2	67.7		SP 16		
3														Δ SP 16		
4	SP 16 TO	13200		89 49 35		+0 10 38		-6.0								
5	SP 6			270 10 51												
6				360 00 26												
7										+37.5		105.2		SP 6		
8	SP 6 TO	13200		90 09 18												
9	SP 16			269 51 01		+0 09 05		-6.0								
10				360 00 19												
11																
12																
13								+5.5								
14																
15																
16																
17																
18																
19																
20																

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AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) 102 PARTY No. 1182 DATE 23 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR J.S. RODMAN T.V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD		
1															
2												105.2	6		
3															
4		0		90				5.5			110.7	Δ	6		
5															
6		1320		90	44 14			-4.0			89.8		5		
7															
8		2640		90	23 06			-4.0			89.1		4		
9															
10		3960		90	10 19			-4.0			95.1		3		
11															
12		5280		89	52 07			-4.0			119.4		2		
13															
14	SP 1+29'	6571		89	50 13			-6.0						1+29'	
15	TO SP6			270	10 02	+0°	09' 54.5								
16				360	00 15					+15.9	121.1	⊙	7+29'		
17															
18	SP6 TO	6571		90	06 44	+0°	06 44.0	-6.0					6		
19	SP 1+29'			269	53 16										
20				360	00 00										

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AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 102 PARTY No. 1182 DATE 24 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR J.S. RODMAN T.V. 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												121.1		SP1+29		
2		0		90								126.5		Δ SP1+29		
3																
4		29		90								121.1		SP1		
5																
6		1184		91	03 30							100.7		4 TAIL		
7																
8		2504		90	11 00							114.6		8 TAIL		
9																
10		3824		89	53 13							130.4		12 TAIL		
11																
12		4484		89	53 07							131.9		14 TAIL		
13																
14				RECIPROCAL SEE PG 3								-15.9		105.2 0	SP6	
15																
16																
17																
18																
19																
20																

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AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 5
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 SURVEYOR J.S. RODMAN T.V. 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													105.2	SP 6	
2															
3		3960		89 50 44				+6.0	-5.0		100.0	94.0	SP 9	H.I. = 60	
4				270 04 34				+6.0	-5.3						
5															
6		2646		90 05 11				-4.0				92.2	SP 7		
7															
8		1320		90 22 28				-4.0				87.4	SP 8		
9															
10		1320		269 15 29				-4.5				78.5	SP 10		
11				90 44 31											
12															
13															
14															
15															
16															
17															
18															
19															
20															

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AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 6
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 SURVEYOR J.S. RODMAN T.V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2		0		90						+6.0		94.0		SP 9	
3															
4	SP 9 TO	9240		90	10	08									
5	SP 16			269	50	05	-0°	10'	01.5						
6				360	00	13					-27.1	66.9	0	SP 16	
7															
8	SP 16 TO	9240		89	49	58									
9	SP 9			270	10	35	-0°	10'	18.5						
10				360	00	33									
11										+5.5					
12															
13															
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER - KEY CREEK STATE or PROVINCE ALASKA

PAGE No. 7

LINE No.(s) 102

PARTY No. 1182

DATE 24

Day MAR Mo. 77

Yr. BOOK No. _____

SURVEYOR JOEL SWANSON

RODMANTIM VAN ALLEN 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. I.F.S. -S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1																	
2								π	ON	SP 18 LINE	102						
3									=	SP 35 LINE	101						
4																	
5									H.I.	= 5.2							
6																	
7													66.9		16		
8																	
9		2640		89 09 11					+6.0	-33.2		33.6		Δ	18		
10				270 51 15					+6.0	-33.5				Δ			
11																	
12		0		90					-5.2				28.4	0	18	SP 18 LINE 102	
13													29.4			= SP 35 LINE	
14													CLOS = -1.0			101. SEE	
15																PG. 1	
16																	
17																	
18																	
19																	
20																	

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER-KEY CREEK STATE or PROVINCE ALASKA, NORTH SLOPE PAGE No. 8
 LINE No.(s) 102 PARTY No. 1182 DATE 24 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMANTIMYANALLEN 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								<u>7</u>	<u>ON</u>	<u>SP</u>	<u>18</u>	<u>LINE 102</u>			
2										<u>- SP</u>	<u>35</u>	<u>LINE 101</u>			
3															
4													<u>29.4</u>	<u>35</u>	<u>SEE LINE 101</u>
5															<u>SP 35 PG. 7</u>
6		<u>0</u>		<u>90</u>									<u>34.6</u>		<u>▲ 18</u>
7															
8		<u>1320</u>		<u>88</u>	<u>20.53</u>					<u>-10.0</u>	<u>+28.1</u>		<u>62.6</u>	<u>0</u>	<u>19</u>
9				<u>271</u>	<u>38.45</u>					<u>-10.0</u>	<u>+27.9</u>			<u>0</u>	
10				<u>271</u>	<u>26.00</u>					<u>-5.0</u>				<u>0</u>	
11															
12		<u>825</u>		<u>89</u>	<u>55.35</u>					<u>+10.0</u>	<u>+8.9</u>		<u>71.5</u>		<u>▲ 19+ 825</u>
13				<u>270</u>	<u>04.20</u>					<u>+10.0</u>	<u>+8.9</u>			<u>▲</u>	
14				<u>270</u>	<u>25.18</u>					<u>+15.0</u>				<u>▲</u>	
15															
16		<u>495</u>		<u>270</u>	<u>26.32</u>					<u>-15.0</u>			<u>60.4</u>		<u>20</u>
17															
18		<u>1815</u>		<u>90</u>	<u>21.33</u>					<u>-15.0</u>	<u>-26.3</u>		<u>45.2</u>	<u>0</u>	<u>21</u>
19				<u>269</u>	<u>38.17</u>					<u>-15.0</u>	<u>-26.4</u>			<u>0</u>	
20															

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STADIA SURVEY NOTES

AREA IKPIKPOK-KEY

STATE or PROVINCE ALASKA

PAGE No. 9

LINE No.(s) 10.2

PARTY No. 1182

DATE 24

Day MAR Mo. 77

Yr. BOOK No.

SURVEYOR J.S.

RODMAN T.V.

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		1485		90 05 05					+15.0	+17.1		62.3		Δ	22+165	
2				269 55 02					+15.0	+17.1				Δ		
3				269 32 06					+5.0					Δ		
4																
5		1155		89 41 25					-15.0			53.6			23	
6																
7																
8																
9		165		91 17 09					-5.0			53.6			22	(RECORDED OUT OF SEQUENCE)
10																
11		2475		89 37 35					-15.0			63.6			24	
12																
13		3795		89 49 33					-15.0	-3.2		59.3		0	25	
14				270 10 45					-15.0	-2.8				0		
15				270 06 09					-10.0					0		
16																
17		3960		89 35 46					+15.0	-13.2		46.3	41.0	Δ	28	
18				270 23 49					+15.0	-12.8				Δ		
19				270 19 44					+10.0					Δ		
20																

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AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 10
 LINE No.(s) 102 PARTY No. 1182 DATE 24 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMAN TIM VAN ALLEN 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		2640		90	04 01								39.4		26	
2																
3		1320		89	56 20								32.8		27	
4																
5		1320		90	18 32								24.2		29	
6																
7		2640		90	09 02								24.5		30	
8																
9		3983		90	05 49				-15.0	-21.4			24.9	0	31+23'	LINE 102
10					269 54 08				-15.0	-21.3				0		= SP 21+581'
11					269 45 18				-5.0					0		LINE 100
12																
13		0		90					+5.2			30.1		Δ		
14																
15		1901		88	48 13				-15.0	+24.8			54.8	0	SP 20	LINE 100 - P65
16					271 11 47				-15.0	+24.8				0		TIE
17					271 02 47				-10.0					0		50.5
18																
19													55.0			50.1 TIE 0.4
20													CLOS = -0.2			

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AREA IKPIKPUK RIVER / KEY CREEK STATE or PROVINCE ALASKA

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LINE No.(s) 102

PARTY No. 1182

DATE 24

Day MAR Mo. 27

Yr. 77

BOOK No.

SURVEYOR JOEL SWANSON

RODMAN TIM VAN ALLAN

WATHER:

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																	
4		0		90									24.9				SP 21+23' LINE 102
5																	
6		23		90													
7		1297		89 08 02													
8																	
9		2122		89 08 24													
10	1055 / 2110	CHAIN		270 52 08													
11				270 35 46													
12																	
13		4455		89 33 23													
14				270 27 04													
15				270 19 13													
16				89 36 34													
17		3960		770 23 26													
18																	
19		1320		89 44 21													
20																	

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STADIA SURVEY NOTES

 AREA IKPIKPUK - KEY

 STATE or PROVINCE ALASKA

 PAGE No. 12

 LINE No.(s) 102

 PARTY No. 1182

 DATE 24

 Day MAR Mo. 77

Yr. BOOK No.

 SURVEYOR J.S.

 RODMAN T.V.

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		1320		89 52 58									19.7		37	
2																
3		2640		89 45 42									23.1		38	
4																
5		3960		89 51 29					-15.0	-4.9			22.3	0	39	
6				270 08 46					-15.0	-4.6				0		
7				270 00 14					-5.0					0		
8																
9																
10		3960		89 42 38					415.0	-5.3		16.7	11.2	Δ	42	
11				270 17 44					415.0	-5.8				Δ		
12				270 08 59					45.0					Δ		
13				89 44 20												
14		2640		270 15 40					-15.0				13.9		40	
15																
16		1320		89 34 04					-15.0				11.7		41	
17																
18		1320		89 34 16					-15.0				11.7		43	
19																
20		2640		89 47 32					-15.0				11.5		44	

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STADIA SURVEY NOTES

AREA IKPIKPUK-KEY STATE or PROVINCE ALASKA PAGE No. 13
 LINE No.(s) 102 PARTY No. 1182 DATE 24 Day MAP Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMANTIM VAN ALLEN 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.			
1		3960		89	50 37			-15.0	-3.9		13.0	0	45	PIPE, END LINE	
2				270	09 34			-15.0	-3.7			0			
3				270	01 24			-5.0				0			
4															
5		1155		90	13 22			+5.7	+10.2	23.1	18.0	Δ	4	TAIL	
6				269	47 02			+5.7	+10.0			Δ			
7															
8		1320		89	54 38			-10.0			15.2		8	TAIL	
9															
10		2640		89	55 31			-15.0			11.7		12	TAIL	
11															
12		3960		89	58 00			-15.0			10.7		16	TAIL	
13															
14		5280		89	58 38			-15.0			10.8		20	TAIL	
15															
16		6600		89	55 31			-15.0			17.6		24		
17				90	00 35			-5.0							
18															
19				90	13 22			-5.7	-10.2		13.0	0	45		
20		1155		269	47 02			-5.7	-10.0			0			

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 14
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 SURVEYOR J.S. RODMAN T.V. 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					RECIPROCAL ANGLES										
2												13.0		SP 45	
3															
4		0		90										Δ SP 45	
5															
6	45 To 39	7920		89	56	23									
7				270	03	44									
8										+93		22.3	0	39	
9															
10	39 To 45	7920		90	04	58									
11				269	55	41									
12															
13		0		90										Δ 39	
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 15
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 SURVEYOR J.S. RODMAN T.V. 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				RECIPROCAL ANGLES										
2											22.3		SP 39	
3														
4		0		90				+5.4				Δ	39	
5														
6	SP 39 to	8415		89	50	26		-5.6						
7	32+825'			270	09	51								
8									+24.4		46.7	○	SP 32+825	
9														
10	SP 32+825	8415		90	10	57		-5.9						
11	to SP 39			269	49	49								
12														
13		0		90				+5.2			51.9	Δ	SP 32+825	
14														
15														
16														
17														
18														
19														
20														

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STADIA SURVEY NOTES

AREA IKPIKPUK-KEY STATE or PROVINCE ALASKA PAGE No. 16
 LINE No.(s) 102 PARTY No. 1182 DATE 24 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMAN TIM VAN ALLEN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1														
2														
3		0		90				+5.2			51.9	46.7		32+825 32+825
4				90	39 56									
5		1815		269	20 04			-15.0				15.9		34
6														
7		2122		90	37 38			-4.3	-27.4			24.6	0.5P	31+25
8				269	22 45			-4.3	-27.2				0	
9														
10												24.9		31+25 = INT. LINES
11											CLOS =	-0.3		102 + 100 SEE PG 8
12														
13														
14														
15														
16														
17														
18														
19														
20														

TI-588B

WORKED BY _____ CHECKED BY 1st _____ 2nd _____