

STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 1
 LINE No.(s) 104 PARTY No. 1182 DATE 11 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMANTIM VAN ALEN 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														77.7	
2															60 = 18. PIPE @
3															INT SP 60 LINE
4															105 + SP 18 LINE
5		0		90							79.0		Δ	18	104 (PIPE)
6															
7		1320		89	00	46						86.8		19	
8															
9		2640		89	27	18						89.3	0	20	93.0
10				270	32	50							0		
11				270	26	29							0		
12															
13															
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA KPIKPUK RIVER - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 2
 LINE No.(s) 104 PARTY No. 1182 DATE 12 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMANTIM VANALEN 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					B.S.		SP 20							
2														
3		3960		89 46 32				45.0	-0.8		88.0		Δ	23
4				270 14 19				45.0	-1.8				Δ	
5				270 05 24				+5.0	-1.5				Δ	
6														
7		2640		89 45 40				-15.0			84.1			21
8														
9		1320		89 50 09				-15.0			76.8			22
10														
11		1320		89 38 18				-15.0			81.3			24
12														
13		2640		89 47 52				-15.0			82.4			25
14														
15		3960		89 41 09				-15.0	+7.0		95.6		0	26 99.4
16				270 19 53				-15.0	8.2				0	
17														
18		1155		89 51 00				+10.0	+6.9		102.5		Δ	26 + 115.5
19				270 09 09				+10.0	6.9				Δ	
20														

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) 104 PARTY No. 1182 DATE 12 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN J. VAN ALEN 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		165		90	21 52							96.5	27	
2														
3		1485		90	01 42							86.8	28	
4														
5		2805		90	08 03							81.1	29	
6														
7		4125		89	39 26					+10.0		112.5	0	30 115.6
8				270	20 24					+9.8			0	
9														
10		1320		89	39 31								Δ	31
11				270	18 55								Δ	
12														
13		1320		89	39 24					+7.1	119.4		Δ	31
14				270	21 18					+6.8			Δ	
15														
16		1320		89	35 34					-5.6		113.9	0	32 117.1
17				270	24 48					-5.4			0	
18				269	59 01					-5.0			0	
19														
20														

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 104 PARTY No. 1182 DATE 13 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		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1	<u>137/466</u>	<u>1466</u>		<u>90</u>	<u>12 15</u>				<u>+15.0</u>	<u>+20.2</u>		<u>134.0</u>		<u>Δ</u>	<u>33+140</u>	
2				<u>269</u>	<u>48 13</u>				<u>+15.0</u>	<u>+20.0</u>				<u>Δ</u>		
3				<u>269</u>	<u>24 37</u>				<u>+5.0</u>					<u>Δ</u>		
4																
5		<u>140</u>		<u>91</u>	<u>26 48</u>				<u>-5.0</u>			<u>125.4</u>			<u>33</u>	
6																
7		<u>1180</u>		<u>90</u>	<u>27 11</u>				<u>-15.0</u>	<u>-24.3</u>		<u>109.7</u>		<u>0</u>	<u>34</u>	<u>113.2</u>
8				<u>269</u>	<u>33 05</u>				<u>15.0</u>	<u>-24.2</u>				<u>0</u>		
9				<u>269</u>	<u>04 59</u>				<u>-5.0</u>					<u>0</u>		
10																
11		<u>621</u>		<u>89</u>	<u>32 33</u>				<u>+11.87</u>	<u>+6.9</u>		<u>116.6</u>		<u>Δ</u>		<u>NOT ON LINE</u>
12				<u>270</u>	<u>27 50</u>				<u>+11.87</u>	<u>+6.9</u>				<u>Δ</u>		
13																
14		<u>745</u>		<u>89</u>	<u>45 36</u>				<u>-11.26</u>	<u>-8.2</u>		<u>108.4</u>		<u>0</u>	<u>35</u>	<u>111.9</u>
15				<u>270</u>	<u>14 15</u>				<u>-11.26</u>	<u>-8.2</u>				<u>0</u>		
16				<u>269</u>	<u>45 46</u>				<u>-5.0</u>							
17																
18		<u>1080</u>		<u>90</u>	<u>33 29</u>				<u>+15.0</u>	<u>+25.5</u>		<u>133.8</u>		<u>Δ</u>	<u>35+1080</u>	
19				<u>269</u>	<u>27 11</u>				<u>+15.0</u>	<u>+25.3</u>				<u>Δ</u>		
20		<u>240</u>		<u>91</u>	<u>00 22</u>				<u>-5.0</u>			<u>124.6</u>			<u>36</u>	

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AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 5
 LINE No. (s) 104 PARTY No. 1182 DATE 13 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		1560		90 07 03					-15.0	-18.1		115.8	0	37	119.3
2				269 53 20					-15.0	-18.0			0		
3				269 31 35					-5.0				0		
4															
5		2640		90 02 05					+15.0	+16.5	131.6		Δ	39	
6				269 59 33					+15.0	+15.2			Δ		
7															
8		1320		89 52 30					-15.0			119.5		38	
9															
10		1320		89 35 07					-15.0			126.2		40	PIPE MARKER
11															
12	<u>1290</u>	2580		89 26 28										TAIL	PIN FLAGS
13															PULLED
14		2640		90 02 15					-15.0	-16.6		115.1	0	37	
15				269 58 01					-15.0	-16.4			0		118.6
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 6
 LINE No.(s) 104 PARTY No. 1182 DATE 13 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		AB.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		1320		89 56 28					+15.0	+13.6		128.8		Δ	36	
2				270 03 18					+15.0	+13.7				Δ		
3				269 37 42					+5.0					Δ		
4																
5	97°/191°	1940		89 53 38					+5.30	-1.6		127.4		0		130.7
6				270 07 06					-5.30	-1.2				0		
7				270 24 19					-15.0					0		
8																
9	106°/120°	2020		89 37 50					+4.85	+3.4		130.5		Δ	33	
10				270 03 07					+4.85	+2.9				Δ		
11				270 20 38					+15.0					Δ		
12																
13		3960		90 03 31					-15.0	-18.7		112.0		0	30	114.7
14				269 56 52					-15.0	-18.3				0		
15				269 48 02					-5.0					0		
16																
17		5280		89 44 16					+15.0	-9.7		101.6		Δ	26	
18				270 16 35					+15.0	-11.1				Δ		
19																
20																

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STADIA SURVEY NOTES

AREA IRAIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 7
 LINE No. (s) 104 PARTY No. 1182 DATE 13 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMAN TIM VANALLEN 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		3960		90	03 00				-15.0	-18.1			83.6	0	23	86.8
2				269	57 12				-15.0	-17.9				0		
3																
4		5280		89	57 53				-15.0	+11.2	10.4	94.0		Δ	19	
5				270	03 08				-15.0	+9.6				Δ		
6																
7		1320		90	34 46				-4.9	-18.2			75.9	0	18	30.2 (77.7) TIE 2-5
8				269	25 44				-4.9	-18.0				0		SHOT TOP OF
9																PIPE 18 = 60
10																LINE 105
11																INT. OF 104 +
12																105
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. 8
 LINE No.(s) 104 PARTY No. 1182 DATE 10 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMAN TIM VAN ALBEN 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																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9		1320		90	17	45			715.0	+21.8		95.5		Δ	17		
10				269	42	32			+15.0	+21.7				Δ			
11																	
12																	
13		1320		89	42	33			-15.0	-8.3		87.4		○	16	91.3	
14				270	17	55			-15.0	-8.1				○			
15																	
16																	
17																	
18																	
19																	
20																	

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STADIA SURVEY NOTES

AREA IKPIKPUK-KEY STATE or PROVINCE ALASKA PAGE No. 9
 LINE No.(s) 104 PARTY No. 1182 DATE 11 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					B.S.			16							
2															
3		2534		89 55 08					+15.0	+16.3		98.3		Δ	14-104
4				270 05 46					+15.0	10.6				Δ	
5				269 52 43					+5.0	10.2					
6															
7	60° / 1216	1216		89 37 27					-15.0			91.3		15	
8															
9		106		94 46 44					-15.0			74.5		14	
10															
11	71.5 / 1430	1430		90 30 04					-15.0			70.8		13	
12															
13		2750		90 09 02					-15.0	-22.1		76.4	0	12	80.0
14				269 51 13					-15.0	21.9			0		
15				269 45 06					-10.0				0		
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 10
 LINE No.(s) 104 PARTY No. 1182 DATE 13 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.		
1														
2		1534		90 02 03				+18.0	+18.9		95.1		Δ	10+1108'
3				269 58 34				+18.0	+18.6				Δ	3' HIGH ROD
4														
5		214		94 25 17				-15.0			63.7		11	RIVER
6														
7		1108		89 56 36				-10.0			86.2		10	
8														
9		2428		89 51 35				-15.0	-8.9		86.4	0	9	89.8
10				270 09 10				-15.0	-8.4			0		
11				269 54 38				-5.0				0		
12														
13		3080		90 06 52				+15.0	+21.0		106.8		Δ	6+880'
14				269 54 32				+15.0	+19.7				Δ	
15				269 43 21				+5.0	+19.7				Δ	
16														
17														
18														
19														
20														

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AREA 1KPIKPK-KEY

STATE or PROVINCE ALASKA

PAGE No. 11

LINE No.(s)

PARTY No. 1182

DATE 13 Day MAR Mo. 77

Yr. BOOK No.

SURVEYOR 104

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	Correction	Center Hair			INST.	ROD		
1	815	7750		90	10 52				-15.0				86.3	8	
2															
3		436		90	25 06				-15.0				88.5	7	
4															
5		980		89	36 45				10.0				97.6	6	
6															
7		2200		89	50 04				15.0	-8.5			98.3	5	101.8
8				270	10 19				-15.0	-8.3					
9				269	54 23				-5.0						
10															
11	131 2630	2640		89	41 10				115.0	+0.4		98.4		3	
12				270	19 42				115.0	-0.3					
13				270	06 21				+5.0	0.0					
14															
15		1320		90	02 32				-15.0				82.4	4	
16															
17		1320		89	59 16				-15.0				83.7	2	
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 12
 LINE No.(s) 104 PARTY No. 1182 DATE 14 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		2640		90 09 01					-15.0	-21.8		76.7	0	1	PIPE
2				269 51 20					-15.0	-21.5			0		80-3
3			269	268 38 12					-5.0						
4															
5	<u>630/</u>	1260		90 14 45					+8.70	+14.1		90.7	Δ		TAIL
6				270 02 56					+8.70	+13.9			Δ		PIN FLAG IN
7				269 45 40									Δ		TAIL PULLED
8				270 02 51					+15.0						
9															
10	<u>650/</u>	1316		90 32 38					-8.45	-20.9		69.9	0		TAIL
11				269 27 42					-8.45	-20.7			0		73-5
12				269 44 50					-15.0				0		
13															
14	<u>1040/</u>	2098		90 00 53					+4.48	+4.9		74.9	Δ		TAIL
15				269 59 06					+4.48	+5.0			Δ		
16				270 16 09					+15.0	+5.1			Δ		
17															
18	<u>850/</u>	1716		89 25 03					-6.40	+11.1		86.2	0		TAIL
19				270 35 42					-6.40	+11.5			0		89-8
20				270 52 47					-15.0	+11.3			0		

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 13
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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		Δ B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1	61°	1356		90	08 20				+8.27	+16.5		97.6	92.5	Δ	GROUP 24	END OF TAIL
2				269	52 04				+8.27	+16.4				Δ		AND END OF
3				270	08 47				+15.0					Δ		LINE 104
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

A TRAVERSE FROM
 HERE TO LINE 101
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